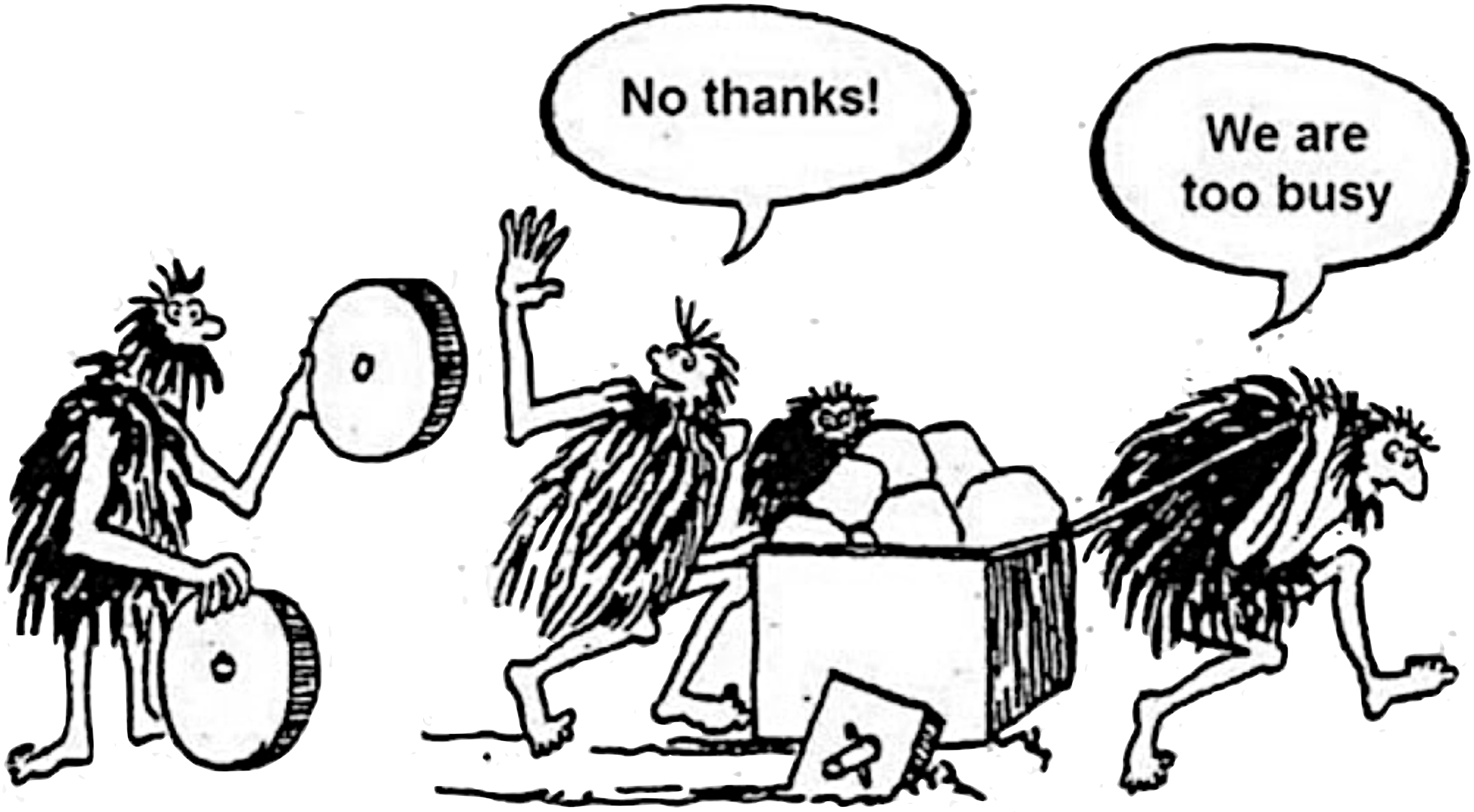
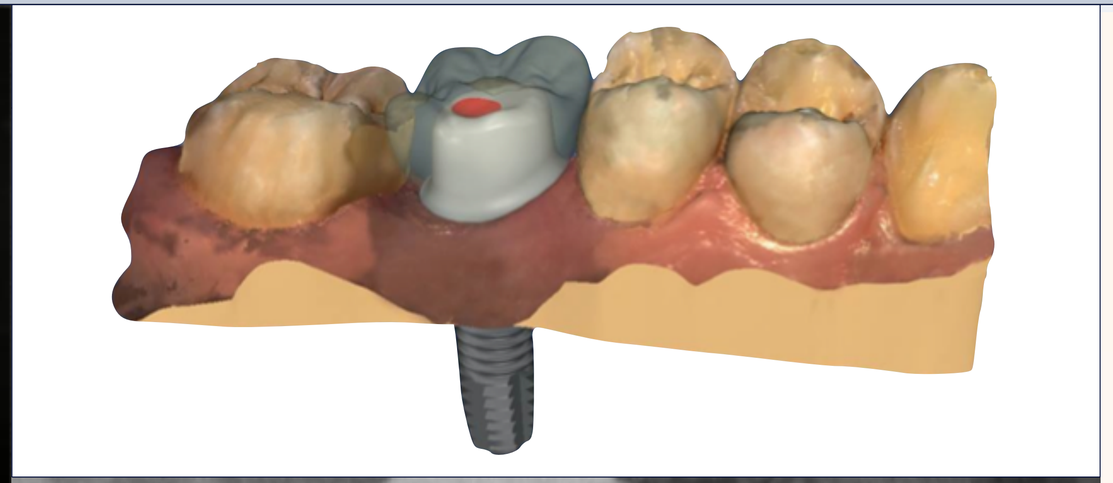
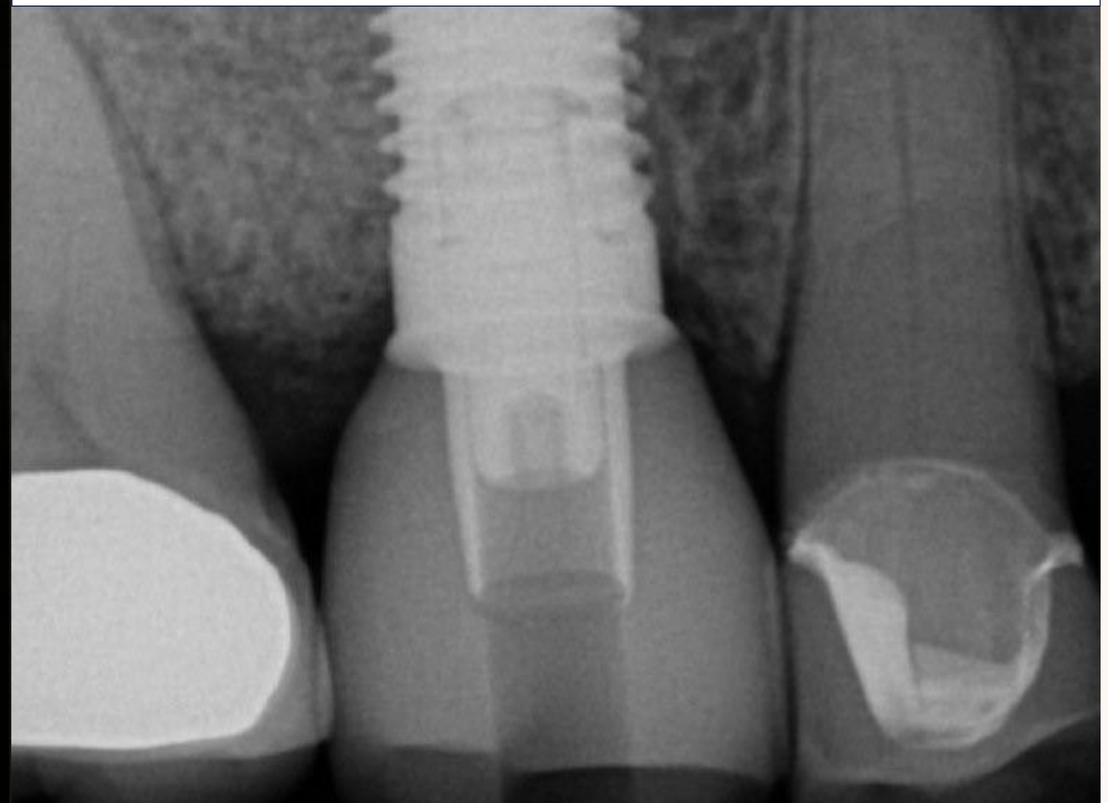

No thanks!
We are too busy

Welcome!





Before We Start

Why do this?

- All Digital
- Control
- Fun
- Internal Marketing
- Cost Effective
- Esthetics

Before We Start

Are these strong enough?

Before We Start

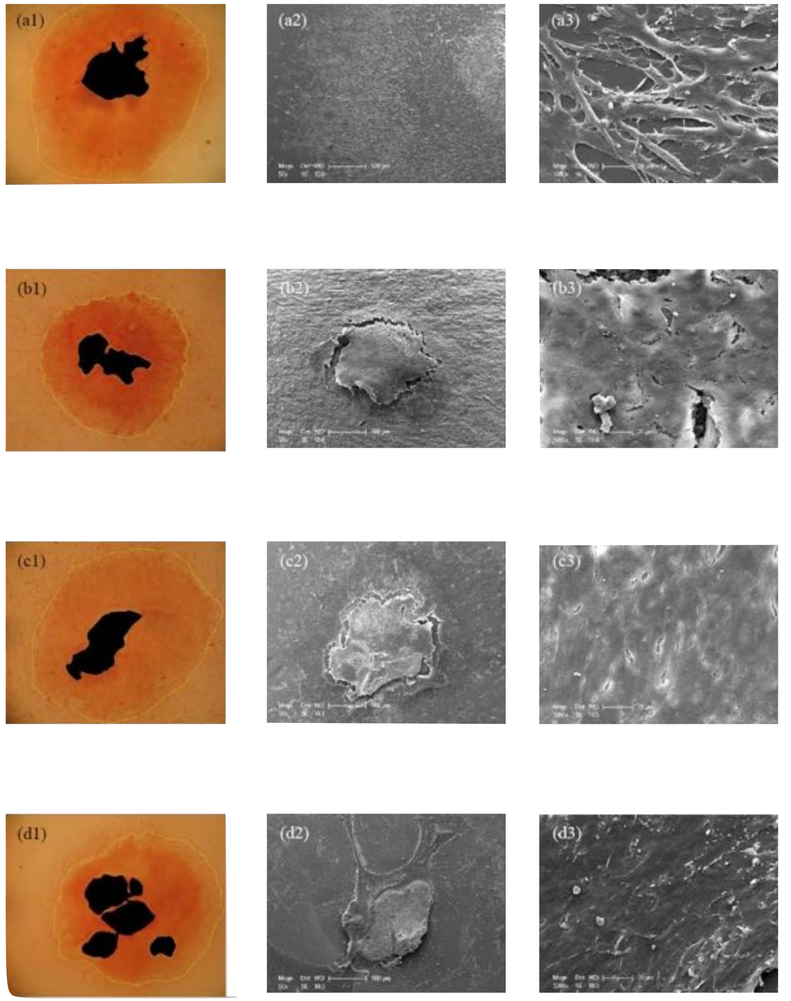
Is subgingival e.max biocompatible?

Glazed: favors cell migration

Polished:

- increased cell density
- higher adhesion

No cytotoxicity



*Brackett MG, Lockwood PE, Messer RL, Lewis JB, Bouillaguet S, Wataha JC. In vitro cytotoxic response to lithium disilicate dental ceramics. Dent Mater 2008;24(4):450-6.
*Messer RL, Lockwood PE, Wataha JC, Lewis JB, Norris S, Bouillaguet S. In vitro cytotoxicity of traditional versus contemporary dental ceramics.J Prosthet Dent 2003;90(5):452-8.

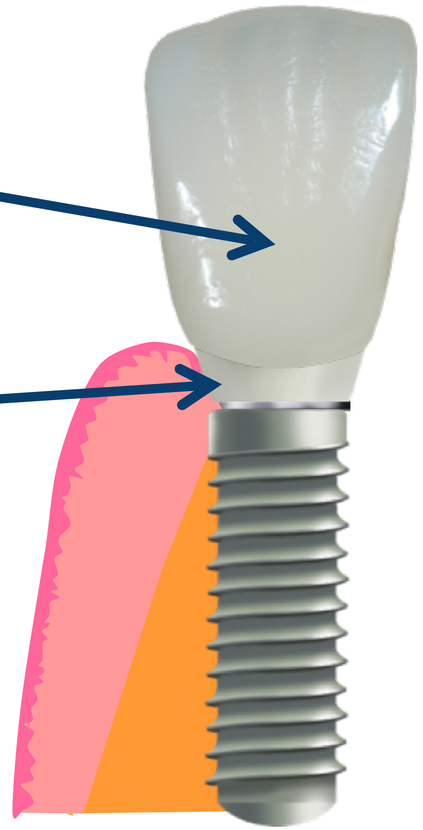
Before We Start

Is subgingival e.max biocompatible?

So….

glaze and/or **polish** here

polish here



Before We Start

Overview

Can this be done in one appointment?

- Part I: Consult
- Part II: Parts
- Part III: Administration, Acquisition, and Model **20 minutes**
- Part IV: Design & Manufacture **60-90 minutes**
- Part V: Assemble & Deliver **30 minutes**

Total: 2 - 2 ½ hours… mostly waiting

Part I: Consult

Part I: Consult

Present the Case and Discuss Fees

Expectation

Reality

Clear expectations about:

- healing times
- post-op pain
- food entrapment
- tissue architecture
- esthetics
- hygiene
- options
- costs

Part I: Consult

Present the Case and Discuss Fees

Expectation

Reality

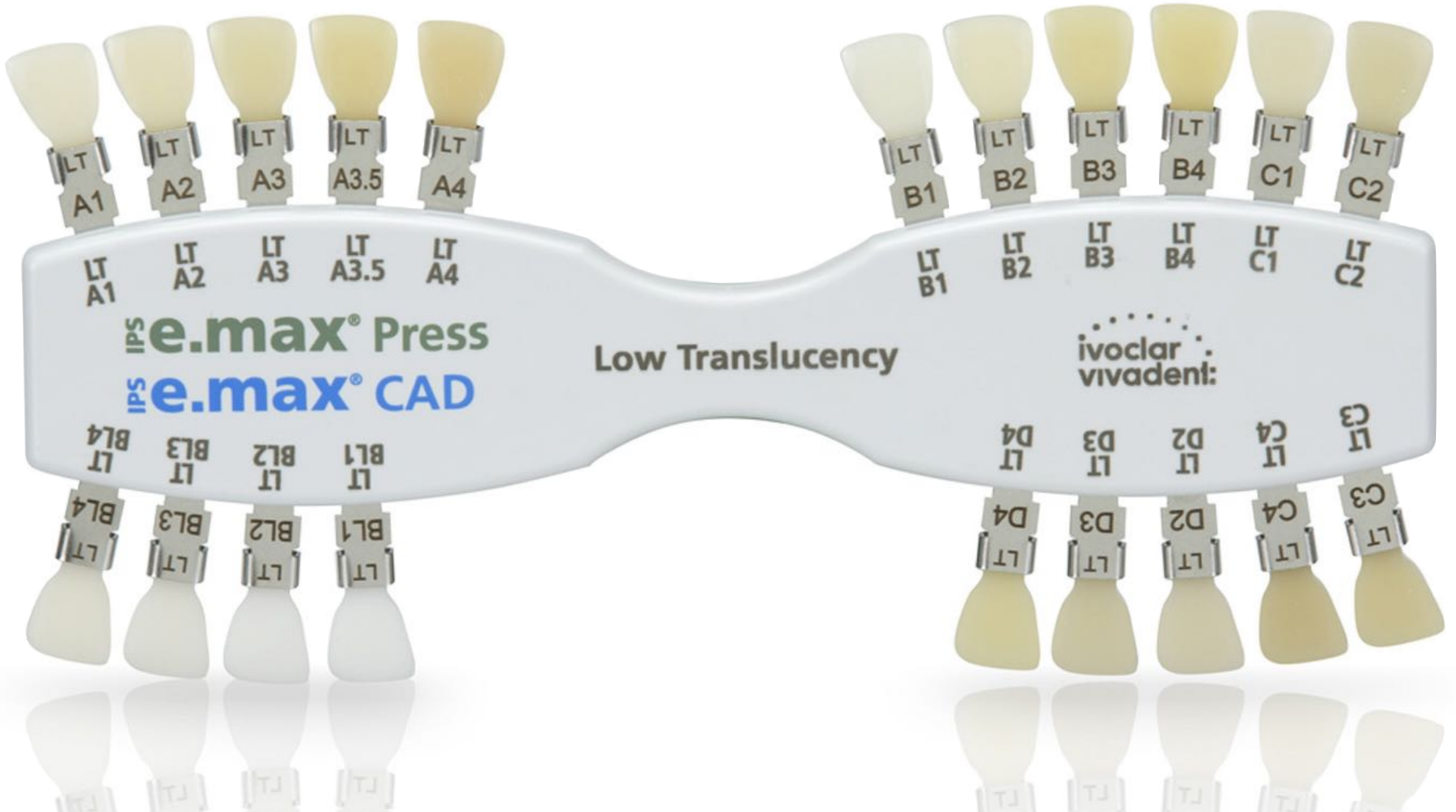
It’s not just an abutment and crown!

Possible additional fees:

- extraction
- bone graft
- temporary
- implant placement
- tissue adjustments

Part I: Consult

Select Shade



Part I: Consult

Make the Referral (if needed)

- You **CONTROL** THIS!
- Convey to the surgeon:
  - implant **brand** desired
  - implant **size** desired
  - **depth** requested
  - **angulation** requested
  - **guide** if needed
- Meet with your surgeon to set general preferences for your cases.

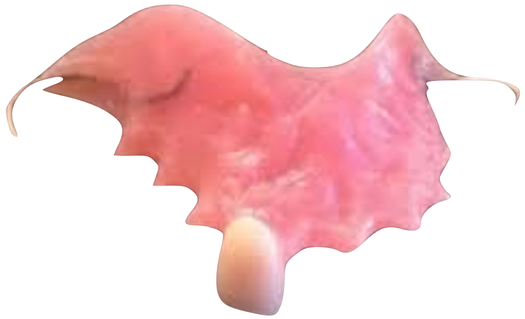
Part I: Consult

Decide on a Temporary

none

Essex

Flipper



One-Wing Maryland Bridge

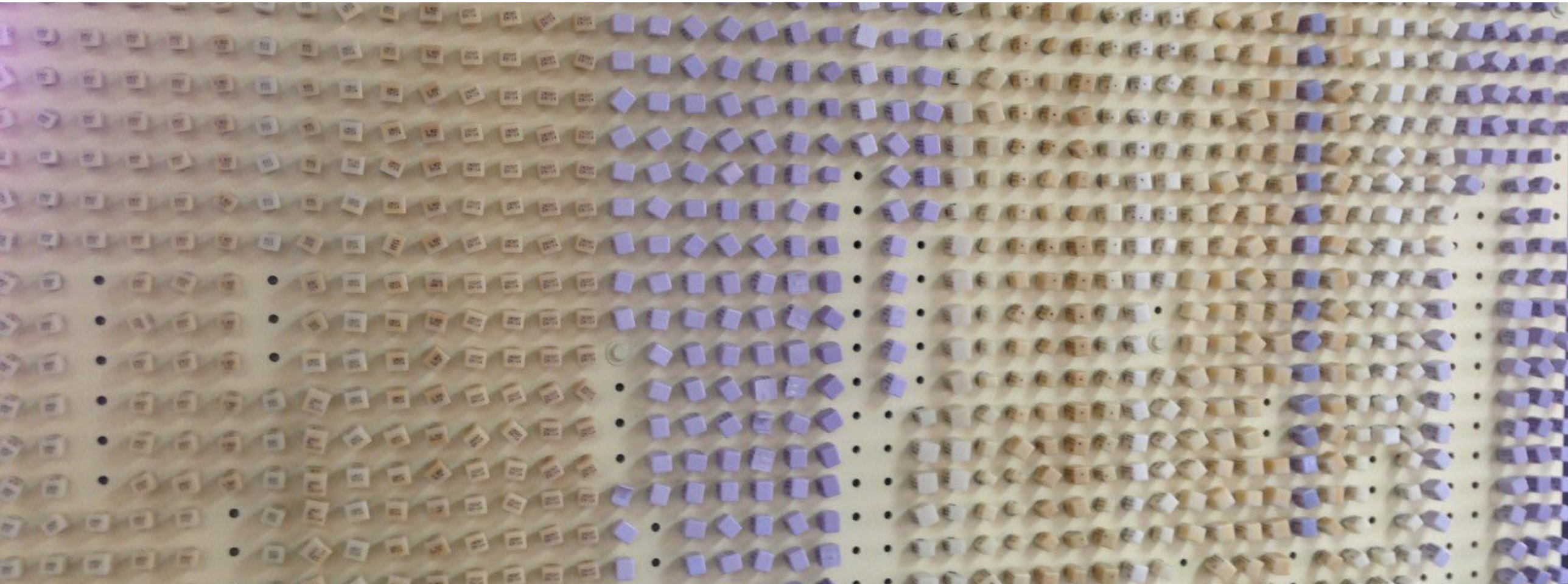

Implant is placed and healed.
Time to restore!

Part II: Parts

Part II: Parts

Sequencing

- **Order** parts when implant is placed.
- **Stock** common parts.

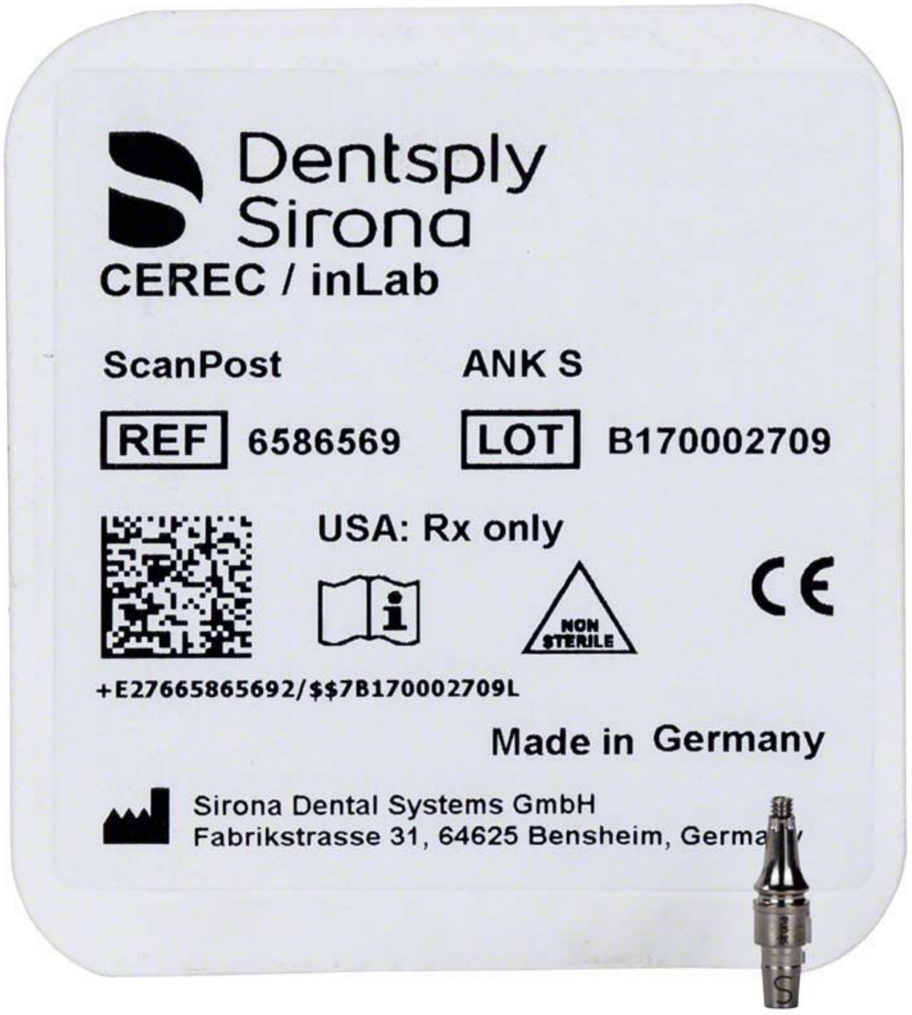


Part II: Parts

Ti Base Kit

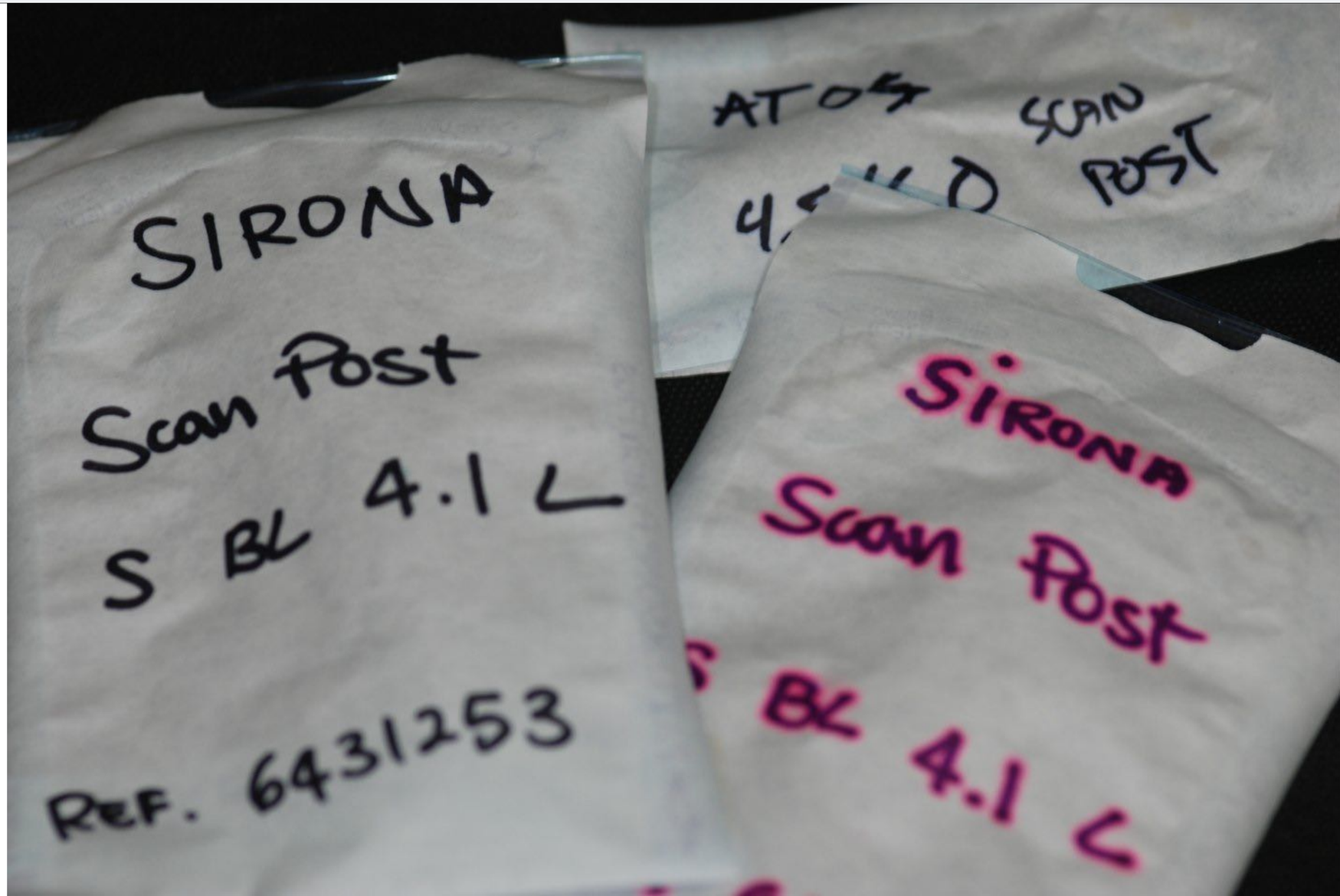
Part II: Parts

ScanPost



Part II: Parts

ScanPost



Part II: Parts

Scanbody

Part II: Parts

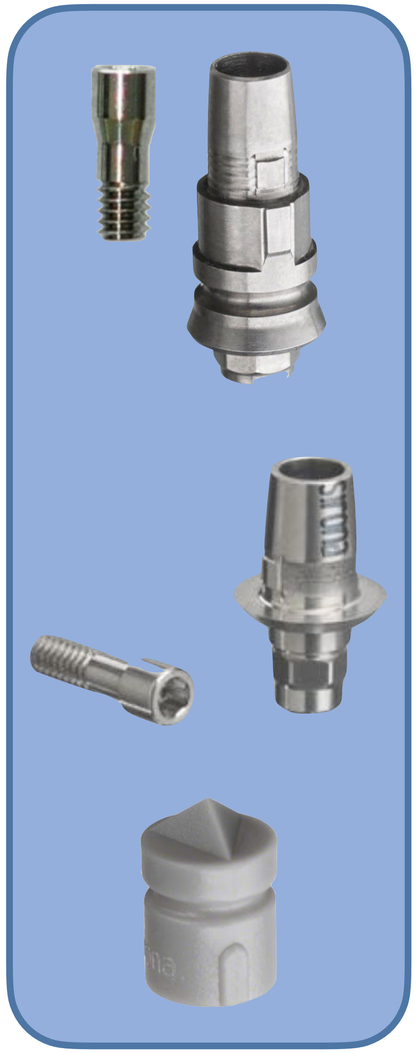
Screwdriver

Part II: Parts

All Scanning Parts

Part II: Parts

Ordering



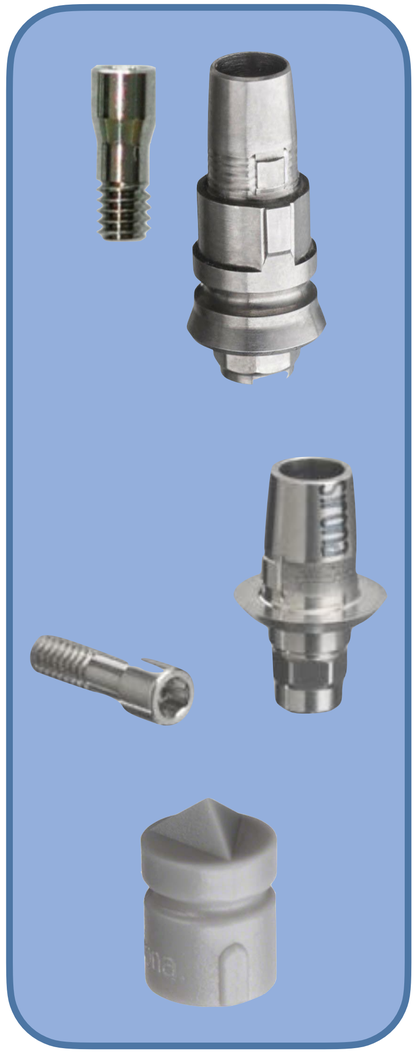
Google

tibase ordering form

Google Search I'm Feeling Lucky

Part II: Parts

Ordering



Your Order Form for TiBase, Abutment Screw and ScanPost

Fill out and E-mail or fax to your specialized dealer.

Company name

Surname, first name

House number, street

Zip code, City

Phone Fax

E-Mail

Customer number

TiBase and ScanPost are delivered without Scanbody. Please order this separately!

The following components are compatible depending on the connection

Con-nection	Scanbodies for Omnicam [4]		Scanbodies for Bluecam [4]		inCoris ZI meso F0.5		inCoris ZI meso F2	
	REF	Quantity in units	REF	Quantity in units	REF	Quantity in units	REF	Quantity in units
S	6431311		6431295		6231802		6231828	
L	6431329		6431303		6231810		6231836	

[1] 1x Titanium base, 1x Abutment screw, [2] 2x Abutment screw, [3] 1x ScanPost, 1x Abutment screw, [4] 36x Scanbody

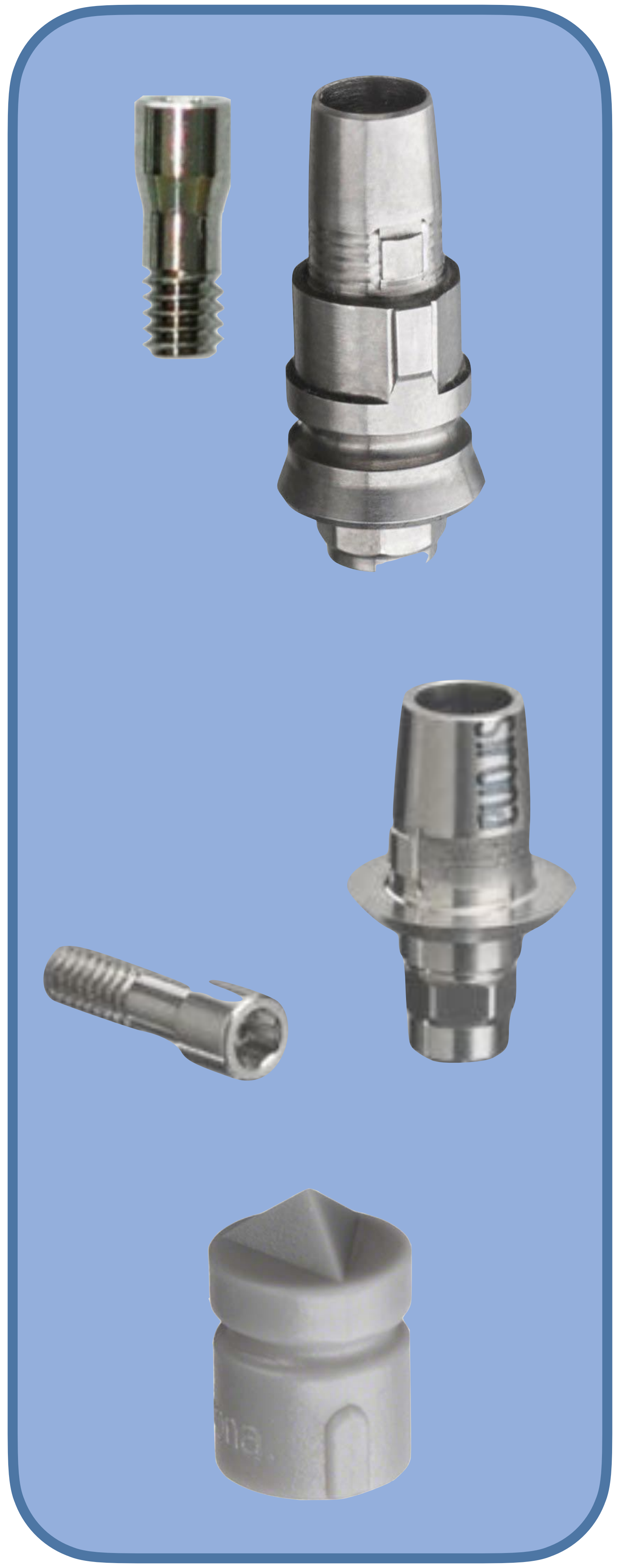
Manufacturer / Implant	Implant diameter	Platform	Con-nection	TiBase [1] REF		Quantity in units	Tightening torque	Abutment Screw [2] REF		Quantity in units	ScanPost [3] REF		Quantity in units
Dentsply Sirona Implants AstraTech Osseospeed EV	3	3.0	S	AT EV 3.0 GH1 S	6586304			AT EV 3.0	6586262		AT EV 3.0 S	6586353	
	3,6	3.6	S	AT EV 3.6 GH1 S	6586312			AT EV 3.6	6586270		AT EV 3.6 S	6586361	
	4,2	4.2	L	AT EV 4.2 GH1 L	6586320		25 Ncm	AT EV 4.2	6586288		AT EV 4.2 L	6586379	
	4,8	4.8	L	AT EV 4.8 GH1 L	6586338			AT EV 4.8	6586296		AT EV 4.8 L	6586387	
	5,4	5.4	L	AT EV 5.4 GH1 L	6586346			AT EV 5.4	6593714		AT EV 5.4 L	6586395	
Dentsply Sirona Implants AstraTech Osseospeed TX	3.5 S / 4.0 S	3.5 / 4.0	L	AT OS 3.5/4.0 L	6282532		25 Ncm	AT OS 3.5/4.0	6460344		AT OS 3.5/4.0 L	6431055	
	4.5 / 5.0 / 5.0 S	4.5 / 5.0	L	AT OS 4.5/5.0 L	6282540			AT OS 4.5/5.0	6460443		AT OS 4.5/5.0 L	6431063	
Dentsply Sirona Implants Ankylos	A, B, C, D	C/X	S	ANK C/ GH1 S	6586528		15 Ncm	Not available			ANK S	6586569	
				ANK C/ GH2 S	6586536								
				ANK /X GH1 S	6586544								
				ANK /X GH2 S	6586551								
Dentsply Sirona Implants Frialit / Xive	3,4	3.4	S	FX 3.4 S	6282433		25 Ncm	FX 3.4, 3.8, 4.5, 5.5	6460476		FX 3.4 S	6430891	
	3,8	3.8	S	FX 3.8 S	6282441						FX 3.8 S	6430909	
	4,5	4.5	L	FX 4.5 L	6282458						FX 4.5 L	6430917	
	5,5	5.5	L	FX 5.5 L	6282466						FX 5.5 L	6430925	

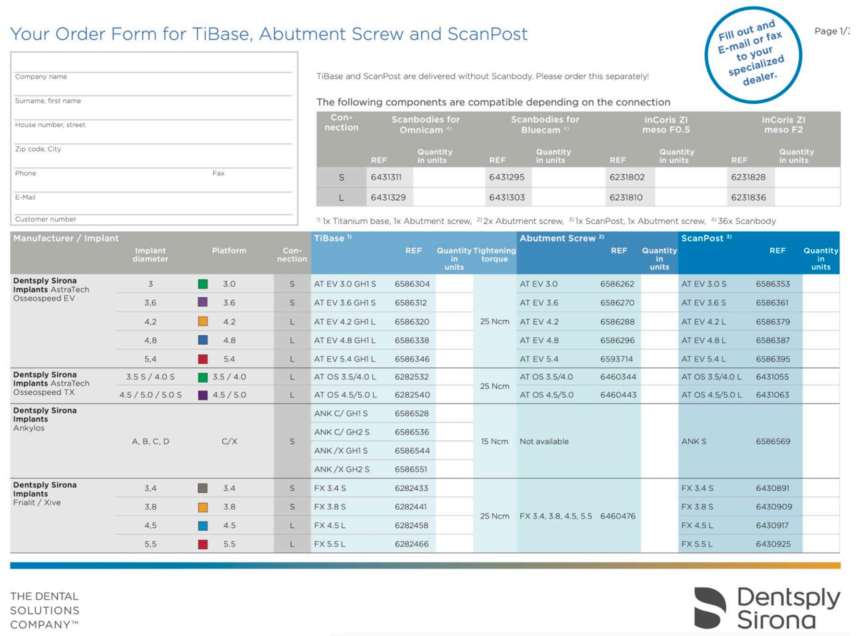
THE DENTAL SOLUTIONS COMPANY™

Dentsply Sirona

Part II: Parts

Ordering




Your Order Form for TiBase, Abutment Screw and ScanPost

The following components are compatible depending on the connection

THE DENTAL SOLUTIONS COMPANY™

Dentsply Sirona

(36 per box)

Con-nection	Scanbodies for Omnicam 4)		Scanbodies for Bluecam 4)		inCoris ZI meso F0.5		inCoris ZI meso F2	
	REF	Quantity in units	REF	Quantity in units	REF	Quantity in units	REF	Quantity in units
S	6431311		6431295		6231802		6231828	
L	6431329		6431303		6231810		6231836	

Straumann Bone Level	3,3	NC (3,3 mm)	L	S BL 3.3 L	6308154	35 Ncm	S BL 3.3, 4.1	6460542	S BL 3.3 L	6431246
	4,1 / 4,8	RC (4,1 mm / 4,8 mm)		S BL 4.1 L	6308337				S BL 4.1 L	6431253

Part II: Parts

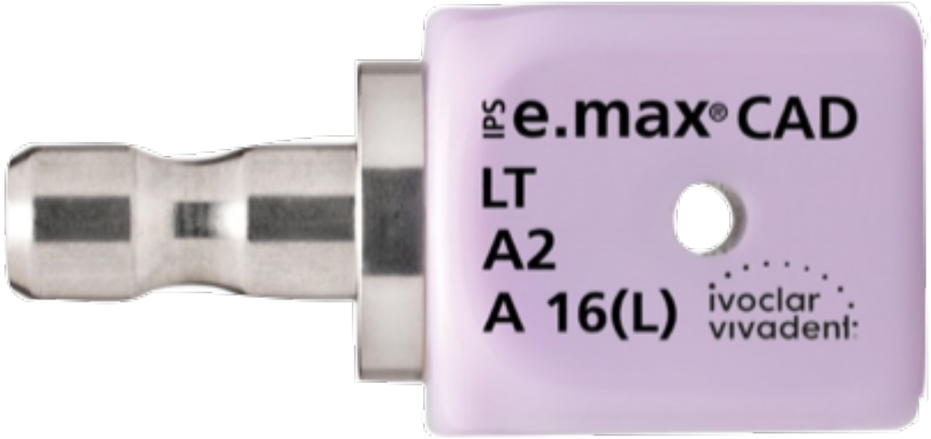
Blocks

Part II: Parts

Blocks

Why e.max?

- High Strength (MPa)
- High Fracture Toughness (resistance to crack propagation)
- Good Esthetics
- Radiolucent



Part II: Parts

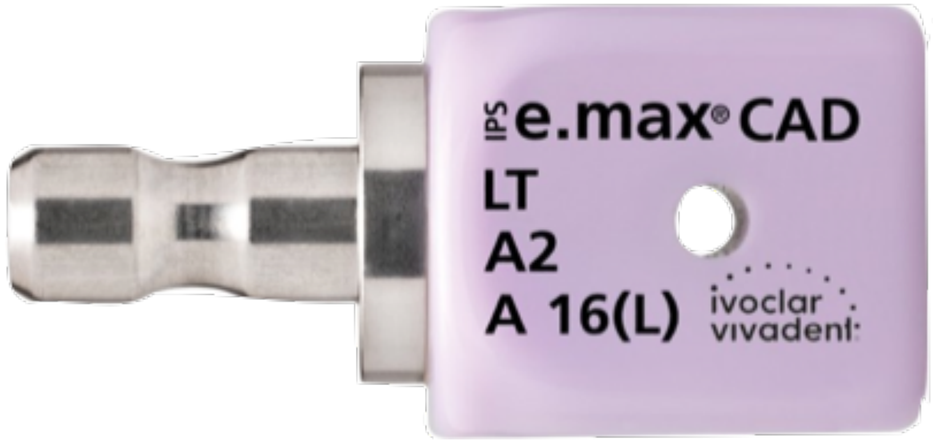
Blocks

Which e.max block should we choose?

Ask yourself: will we split?

- Need to place a temp crown over abutment?
- Screw access position
- Path of draw
- Esthetics
- Personal preference

Notice the “L” or “S”

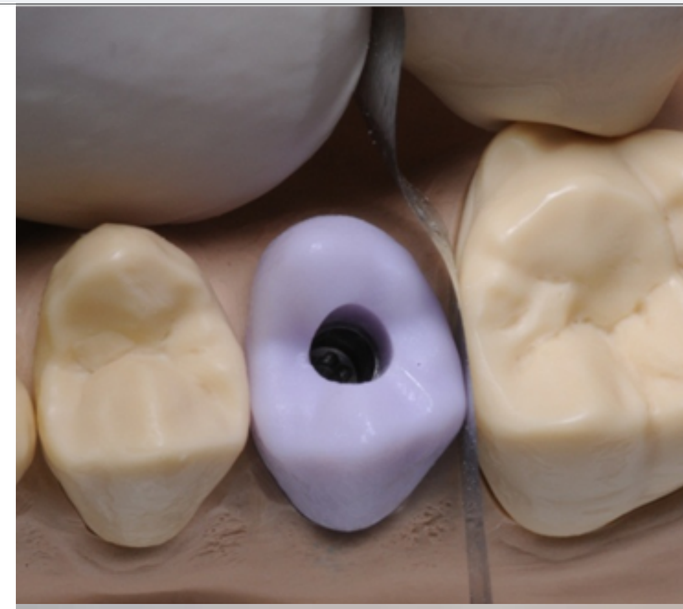


Part II: Parts

Blocks

Hybrid Abutment Crown Blocks

- All are LT
- All popular shades
- 14 or 16 mm



- Can be custom stained

Part II: Parts

Blocks

Abutment Blocks

- MO 0 – for BL1-4
- MO 1 – for A1, A2, B1, B2, C1, C2
- MO 2 – for A3, A3.5,
- MO 3 – for A4, D3, D4
- MO 4 – for C3, C4, D2

- Can be custom stained

Part II: Parts

Crystallization Pins

Patterson Item #021-5320

Part II: Parts

Cost

Used Once Per Tooth:

- Ti Base Kit $92.99
- e.max Block(s) Hybrid $80/$93.80 *or* Split: $80 + $43 = $123
- Scanbody $1

Used Many Times:

- Scan Post $107.59
- Screwdriver (you have this)
- Crystallization Pins $49 for 3
- Monobond Plus $137
- Monobond Etch and Prime $196
- Multilink Hybrid Abutment Cement $250

TOTAL PER TOOTH: $180 - 225

Part III:

Administration, Acquisition, and Model

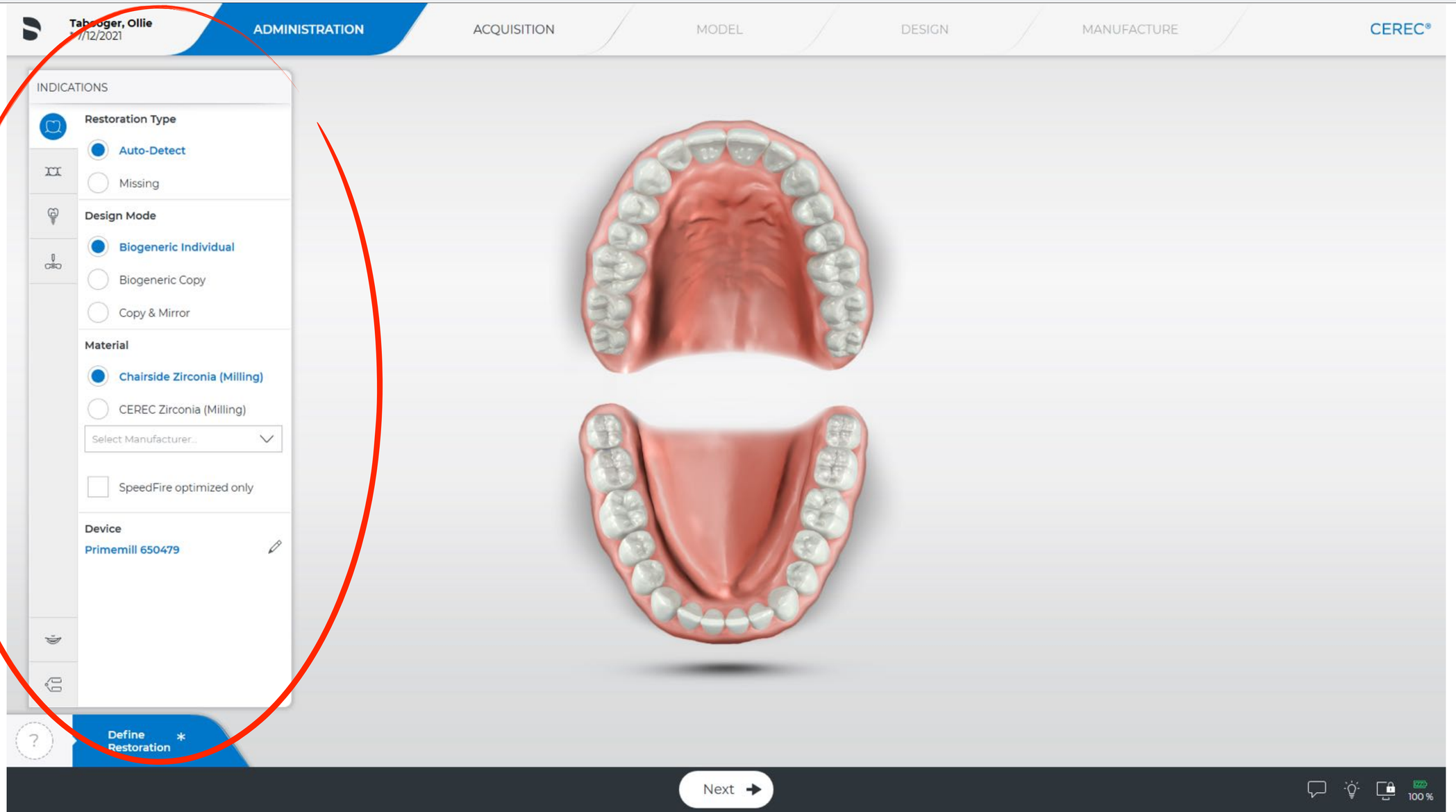
Part III: Administration, Acquisition, and Model

Key differences from a standard crown

- Split function
- The Notch
- Scanbody Catalog(s)
- Trimming
- **Gingival Mask** (assess tissue quality)

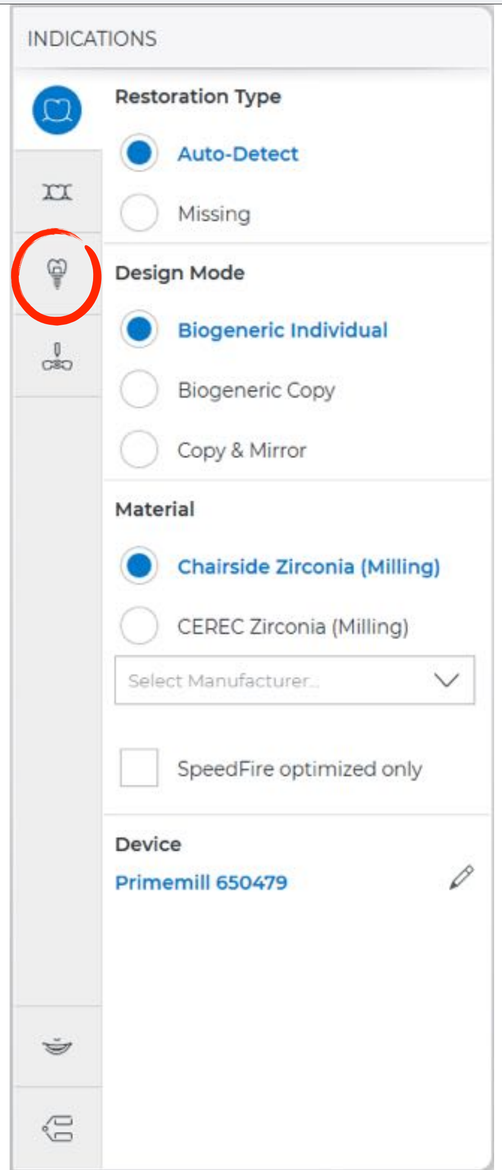
Part III: Administration, Acquisition, and Model

Administration



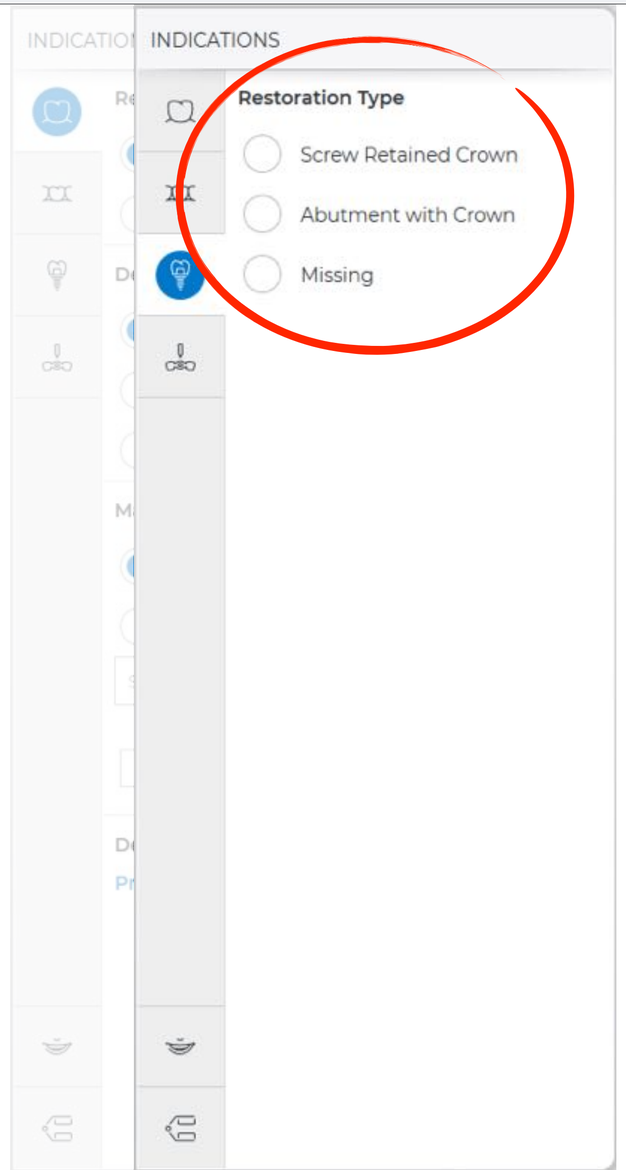
Part III: Administration, Acquisition, and Model

Select Implant



Part III: Administration, Acquisition, and Model

Select Restoration Type



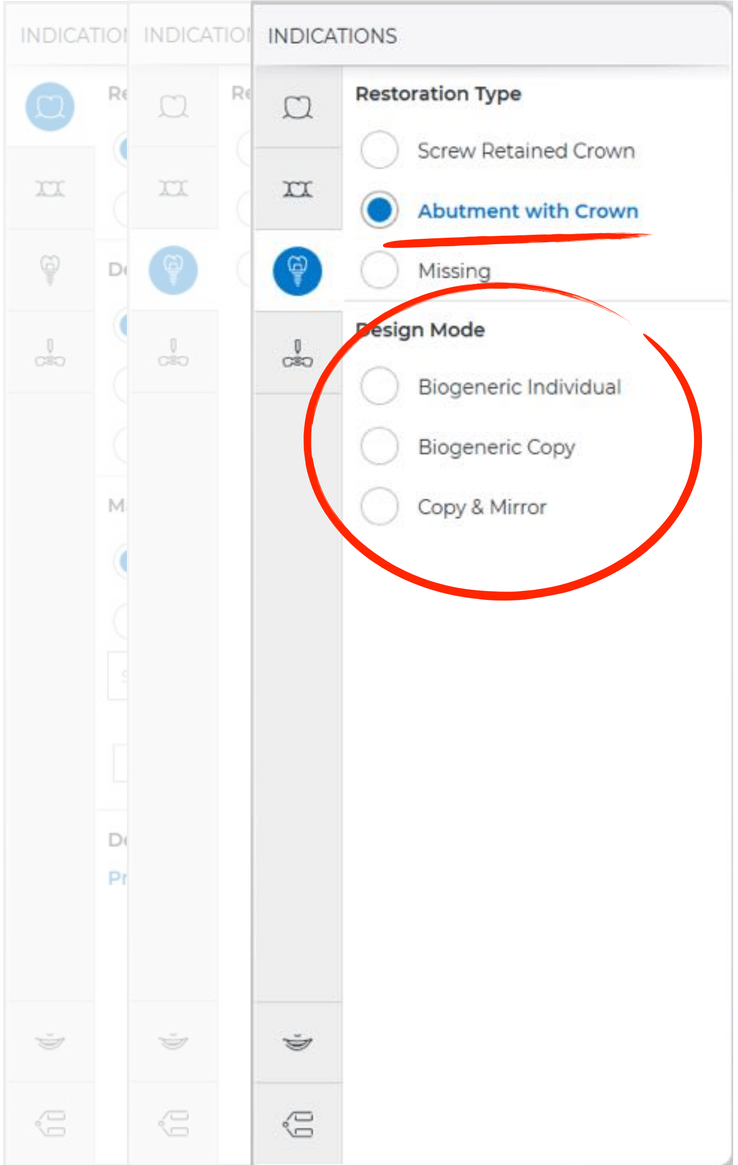
Screw Retained Crown versus Abutment with Crown

-or-

Hint: always choose <u>Abutment with Crown</u>!

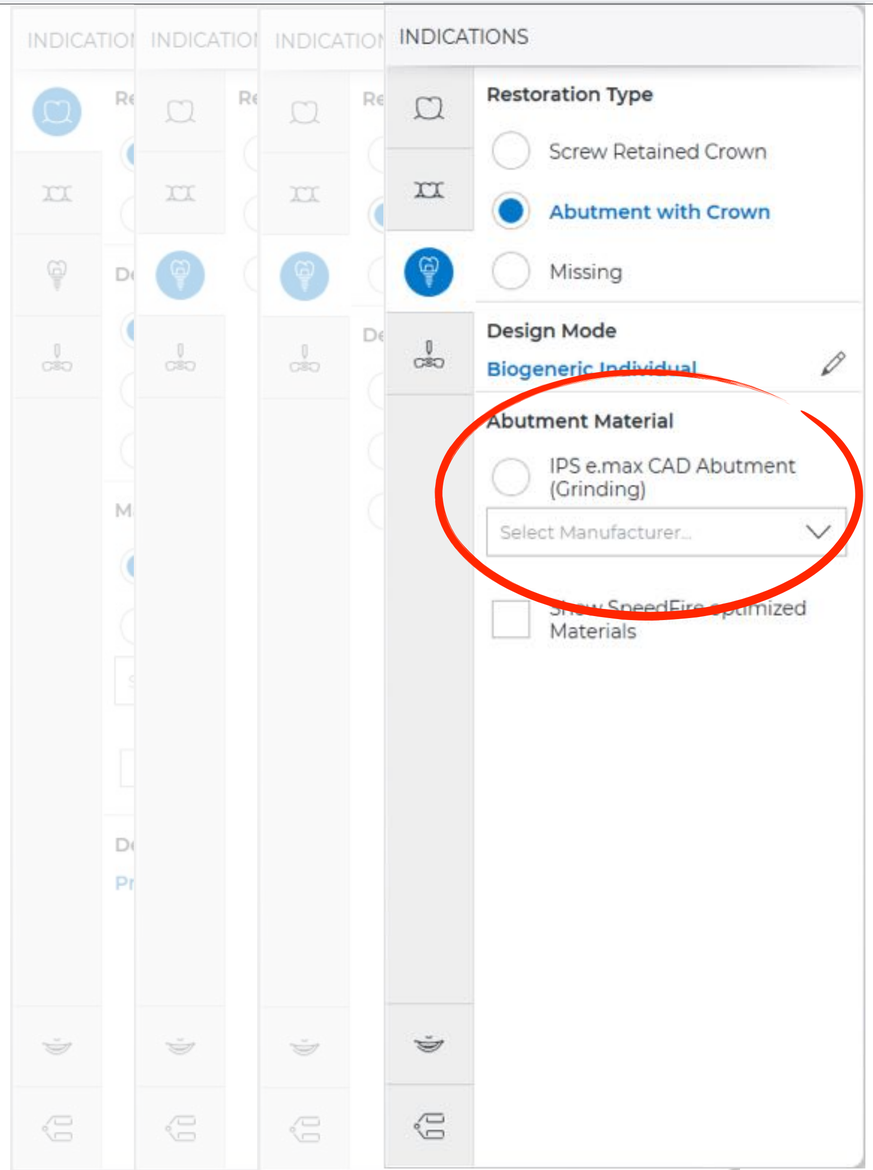
Part III: Administration, Acquisition, and Model

Select Design Mode



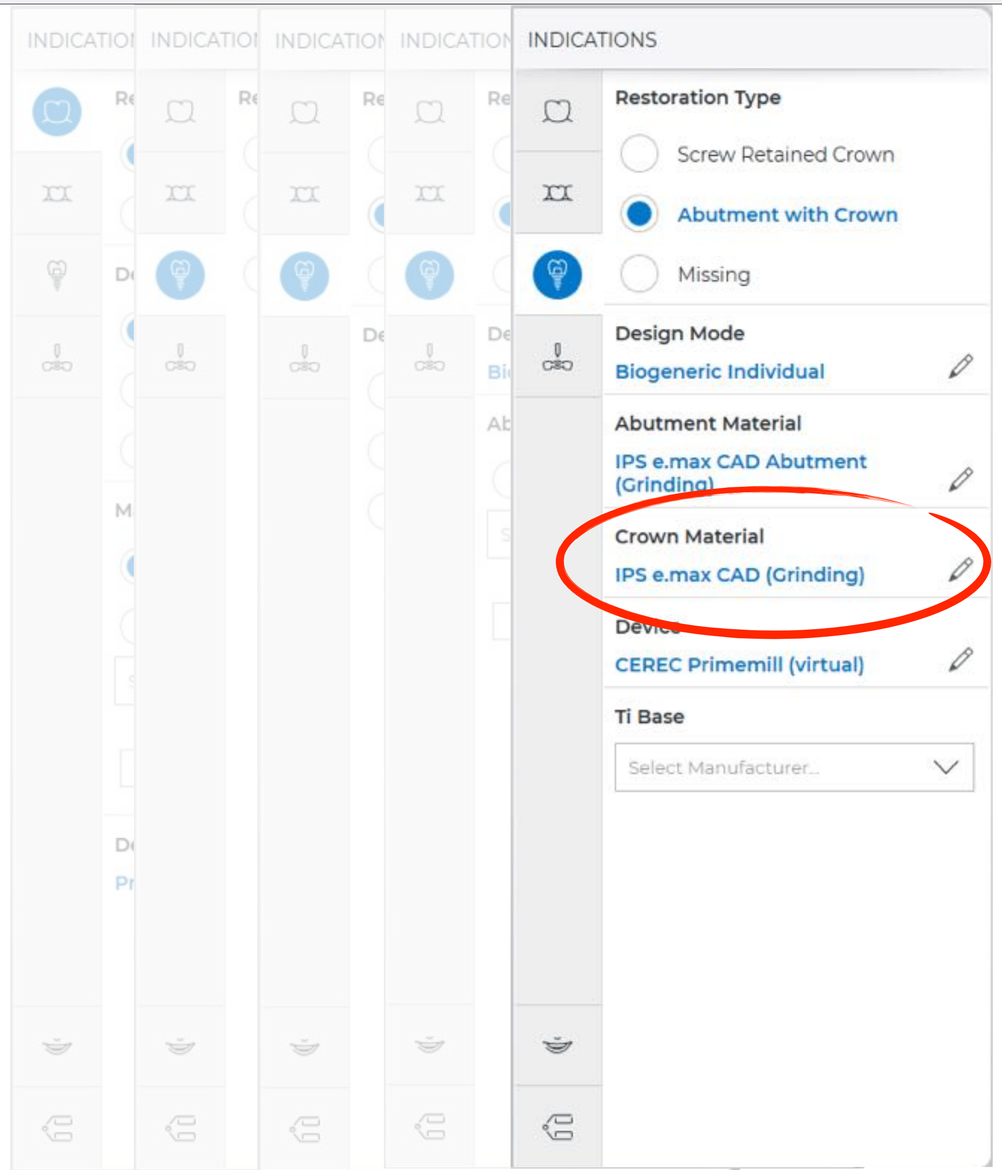
Part III: Administration, Acquisition, and Model

Select Materials: Abutment



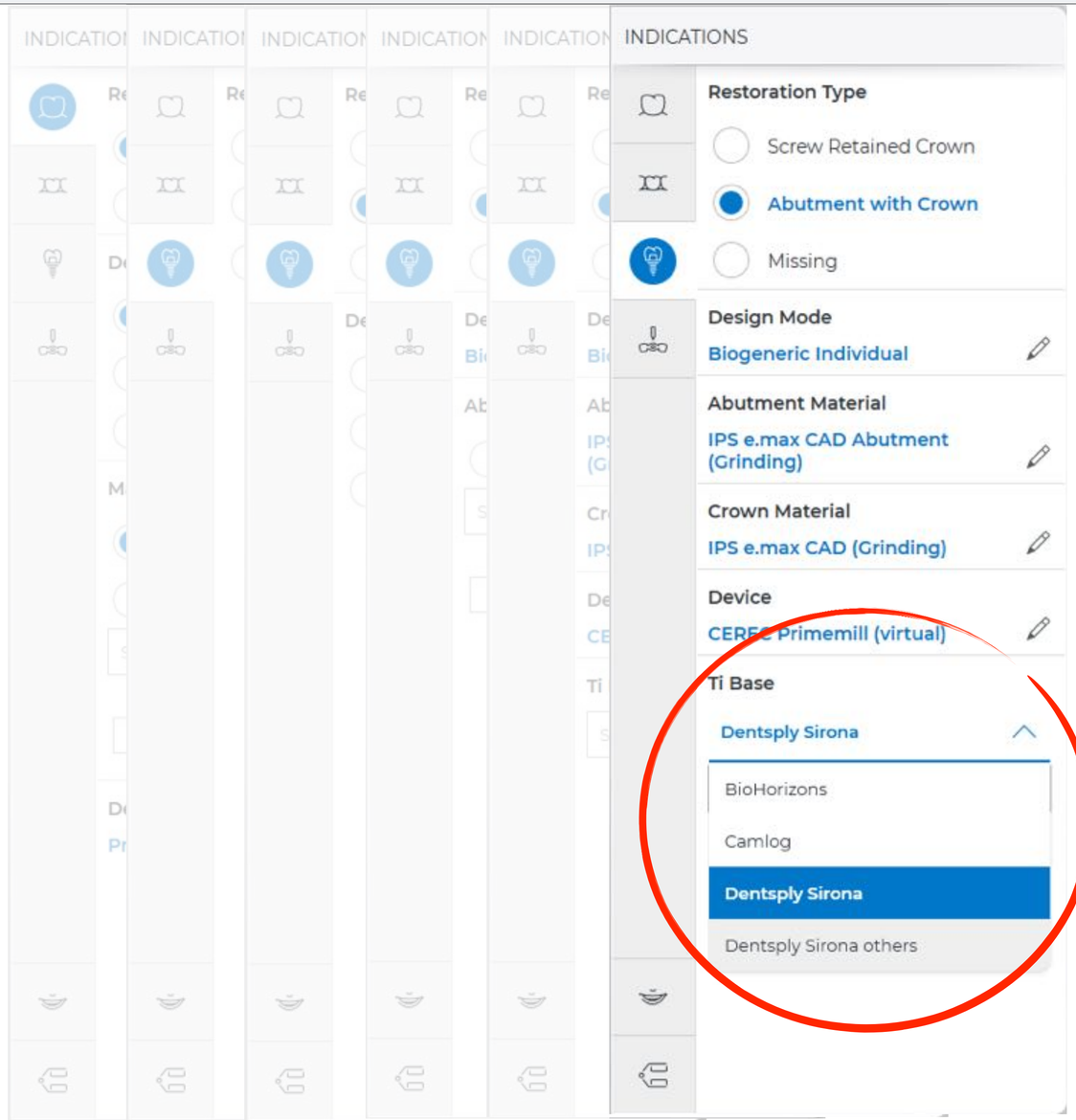
Part III: Administration, Acquisition, and Model

Select Materials: Crown



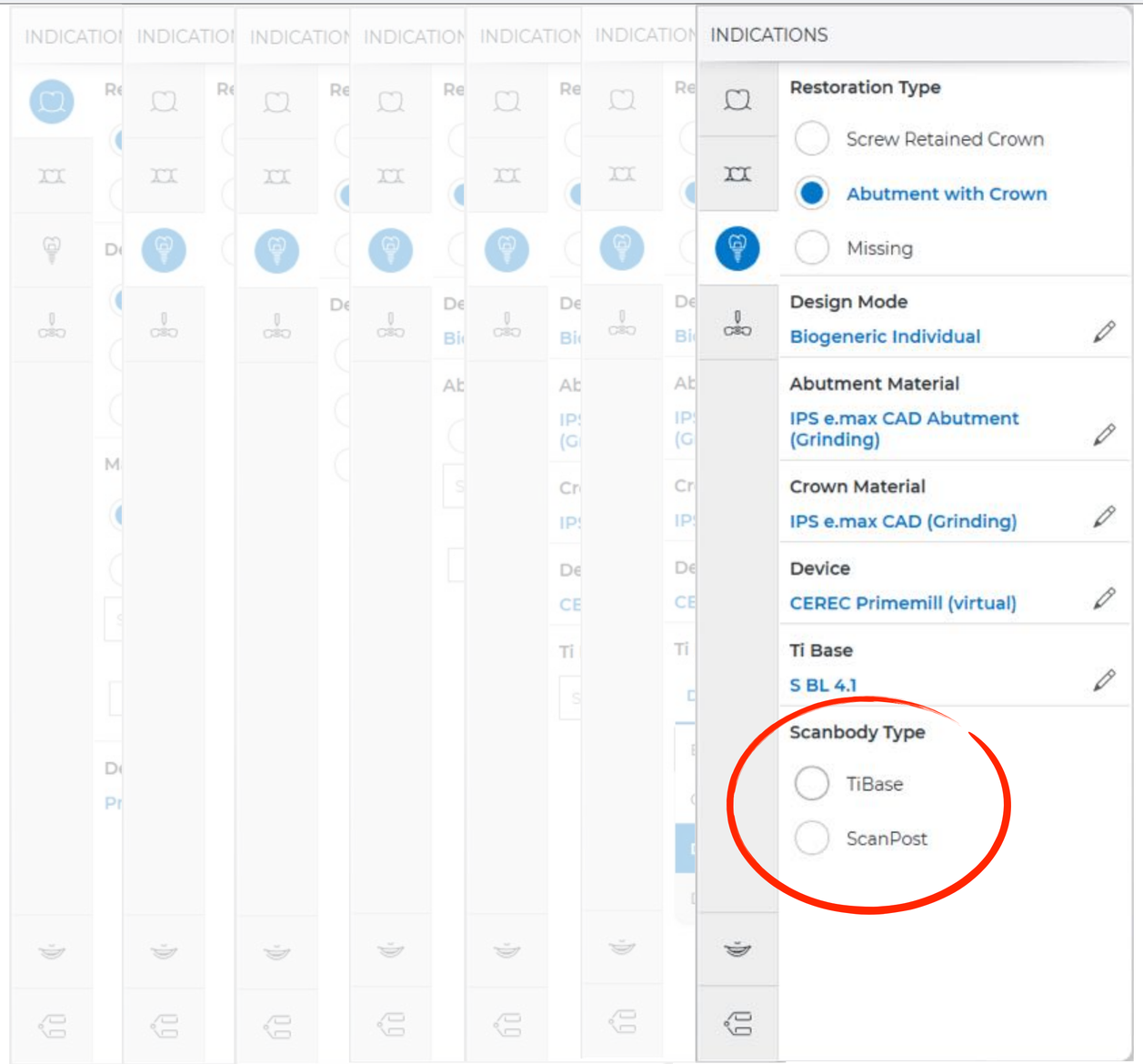
Part III: Administration, Acquisition, and Model

Select Ti Base



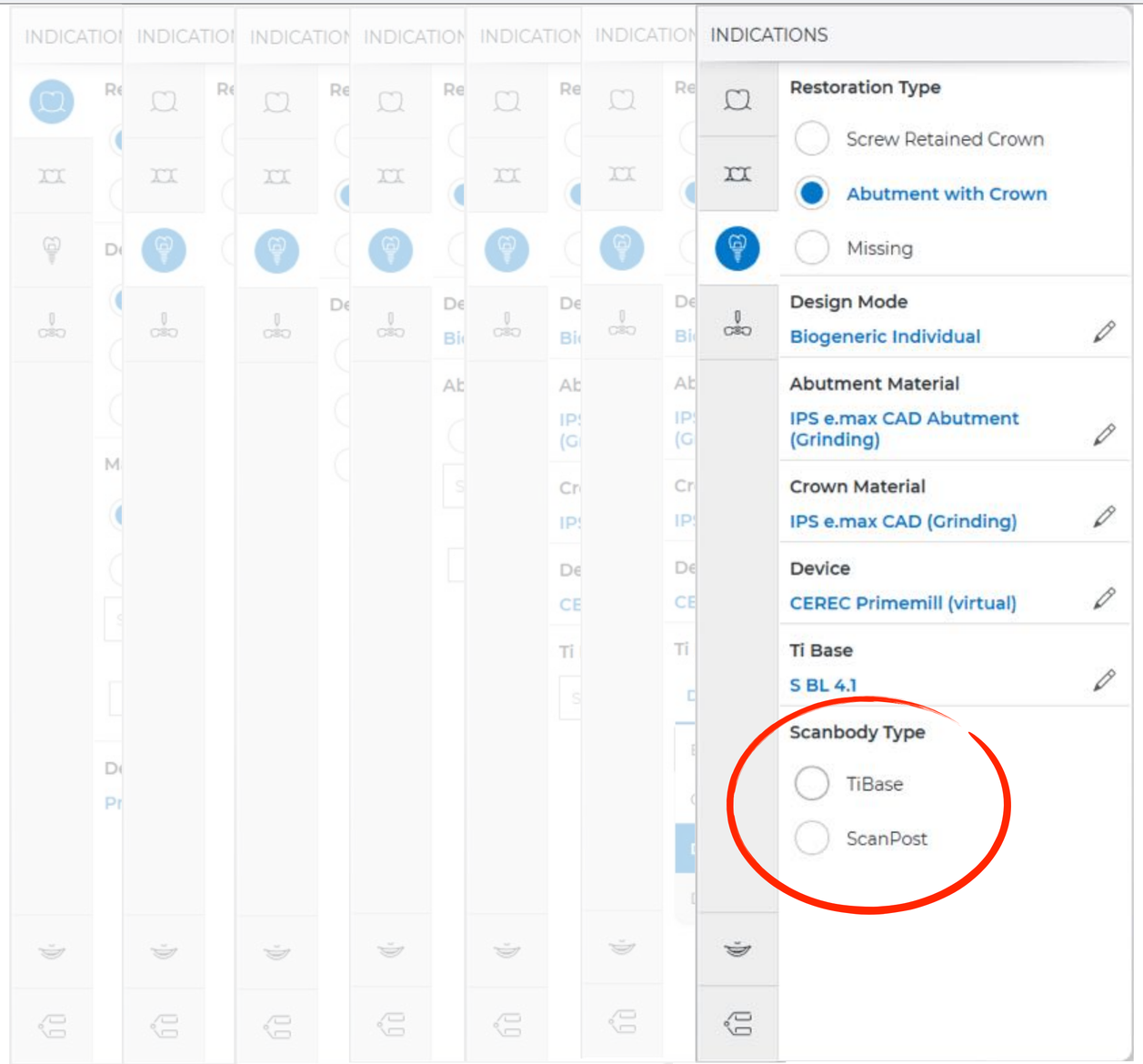
Part III: Administration, Acquisition, and Model

Select Scanbody Type



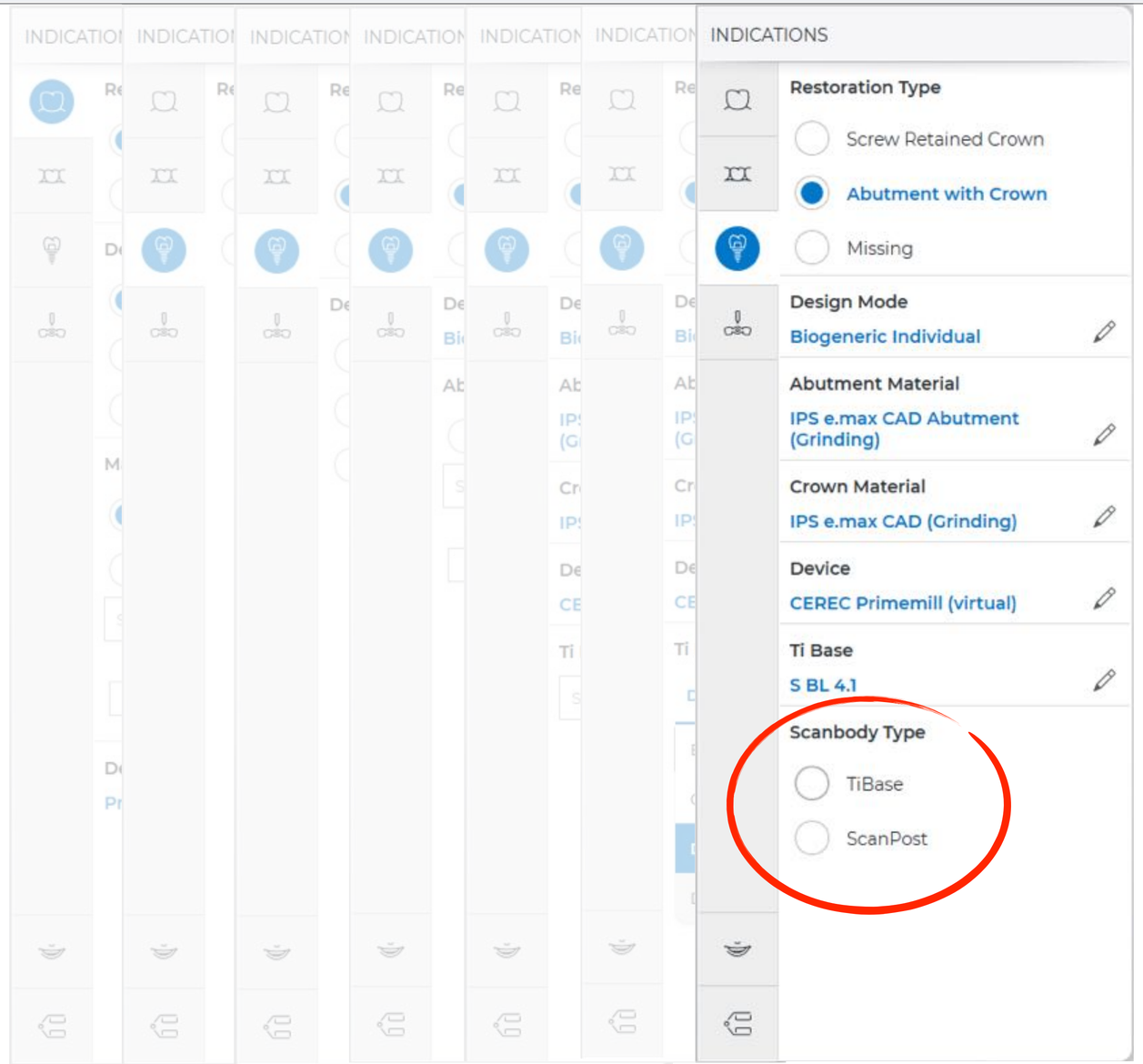
Part III: Administration, Acquisition, and Model

Select Scanbody Type



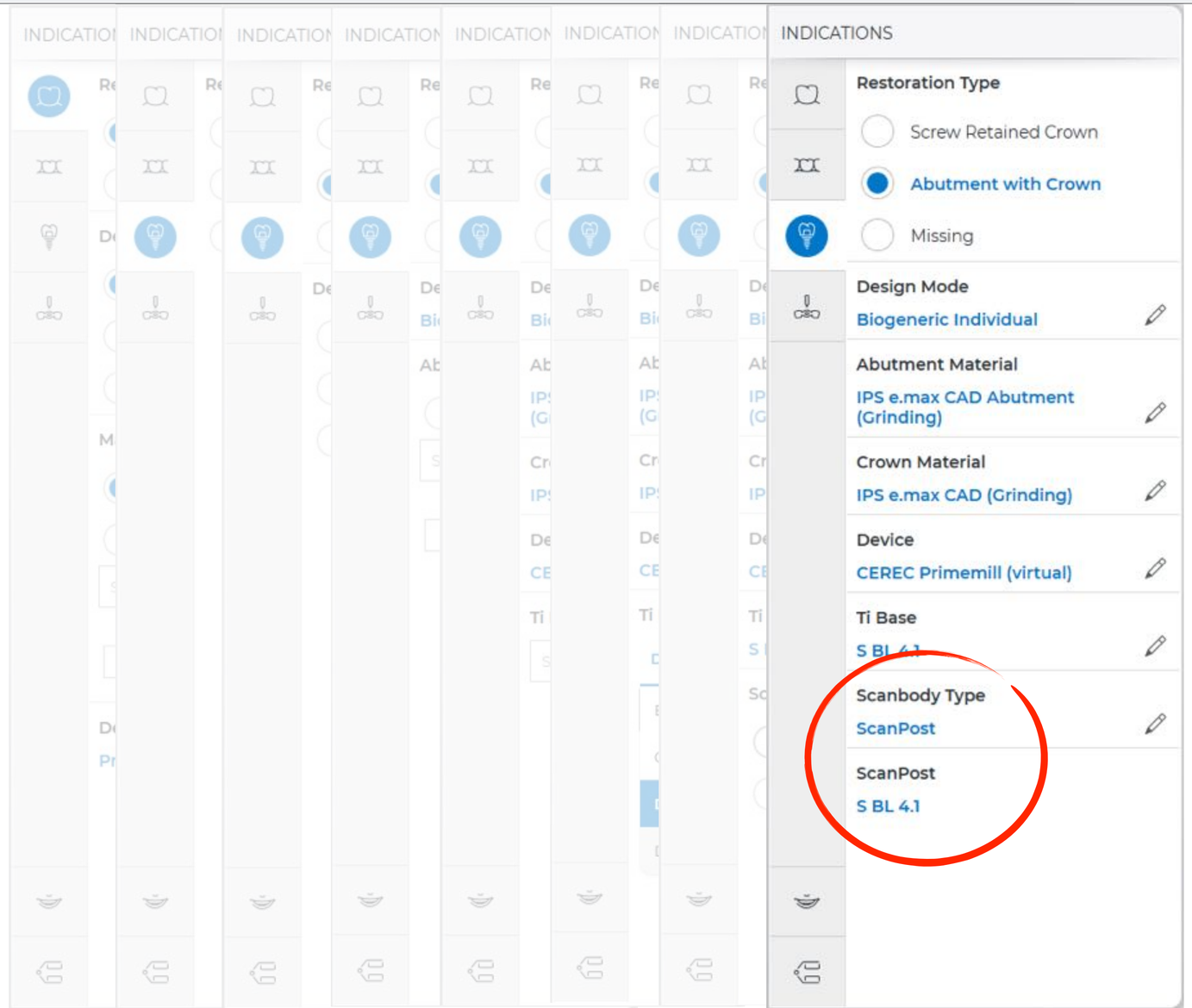
Part III: Administration, Acquisition, and Model

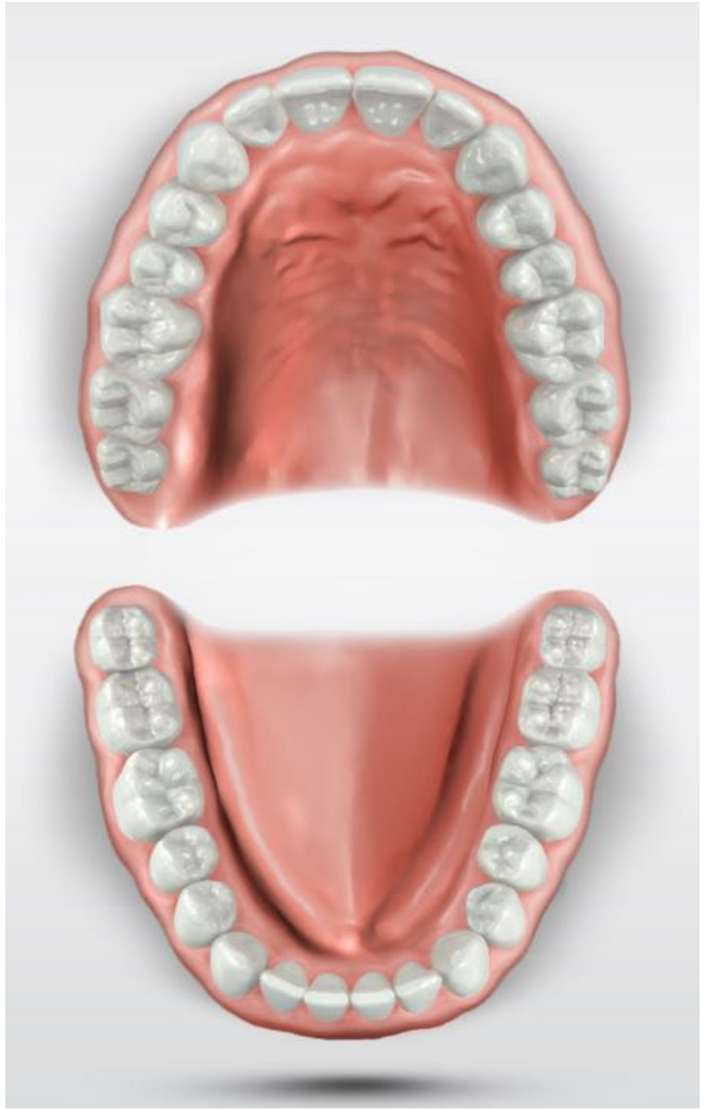
Select Scanbody Type



Part III: Administration, Acquisition, and Model

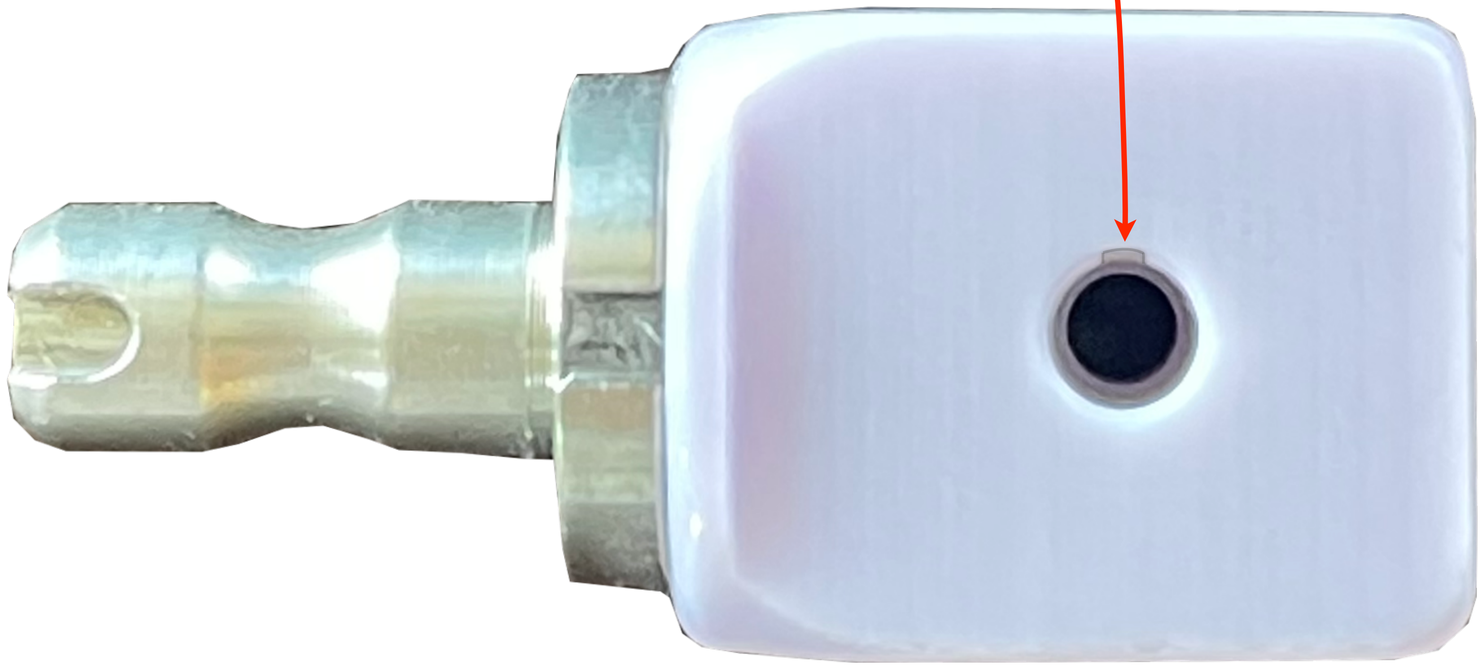
Select Scanbody Type





Part III: Administration, Acquisition, and Model

The “Notch”



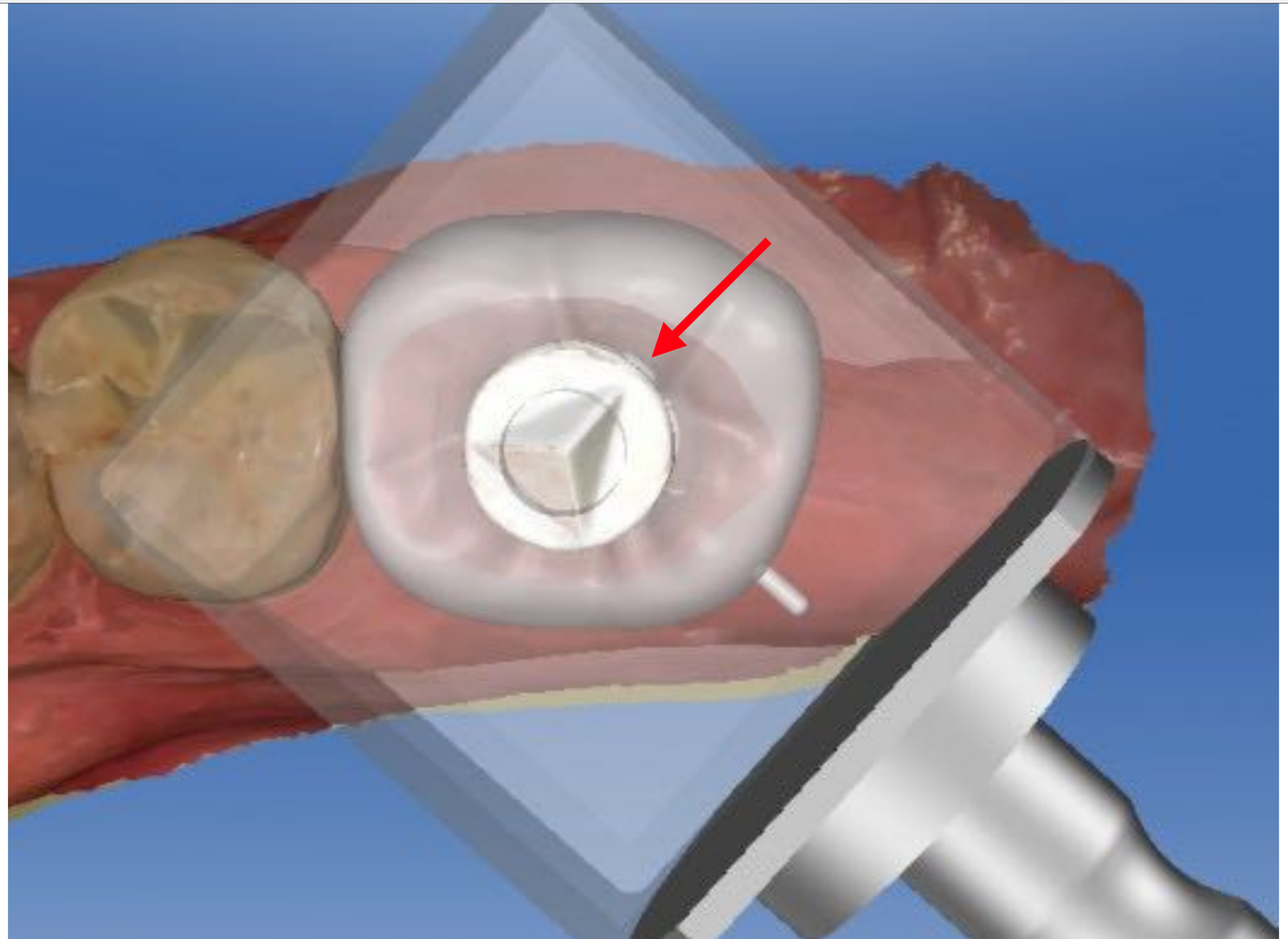
Part III: Administration, Acquisition, and Model

The “Notch”

- **Sprue position** cannot be adjusted in mill preview.
- Orient the notch before scanning with **milling in mind.**
- **Hybrid abutment/crown**: place the notch away from the direct buccal or lingual to keep the sprue off the contact.
- **Abutment**: place the notch at the direct buccal or lingual to force the sprue to the mesial or distal where there’s more room to (try to) keep it off the margin.

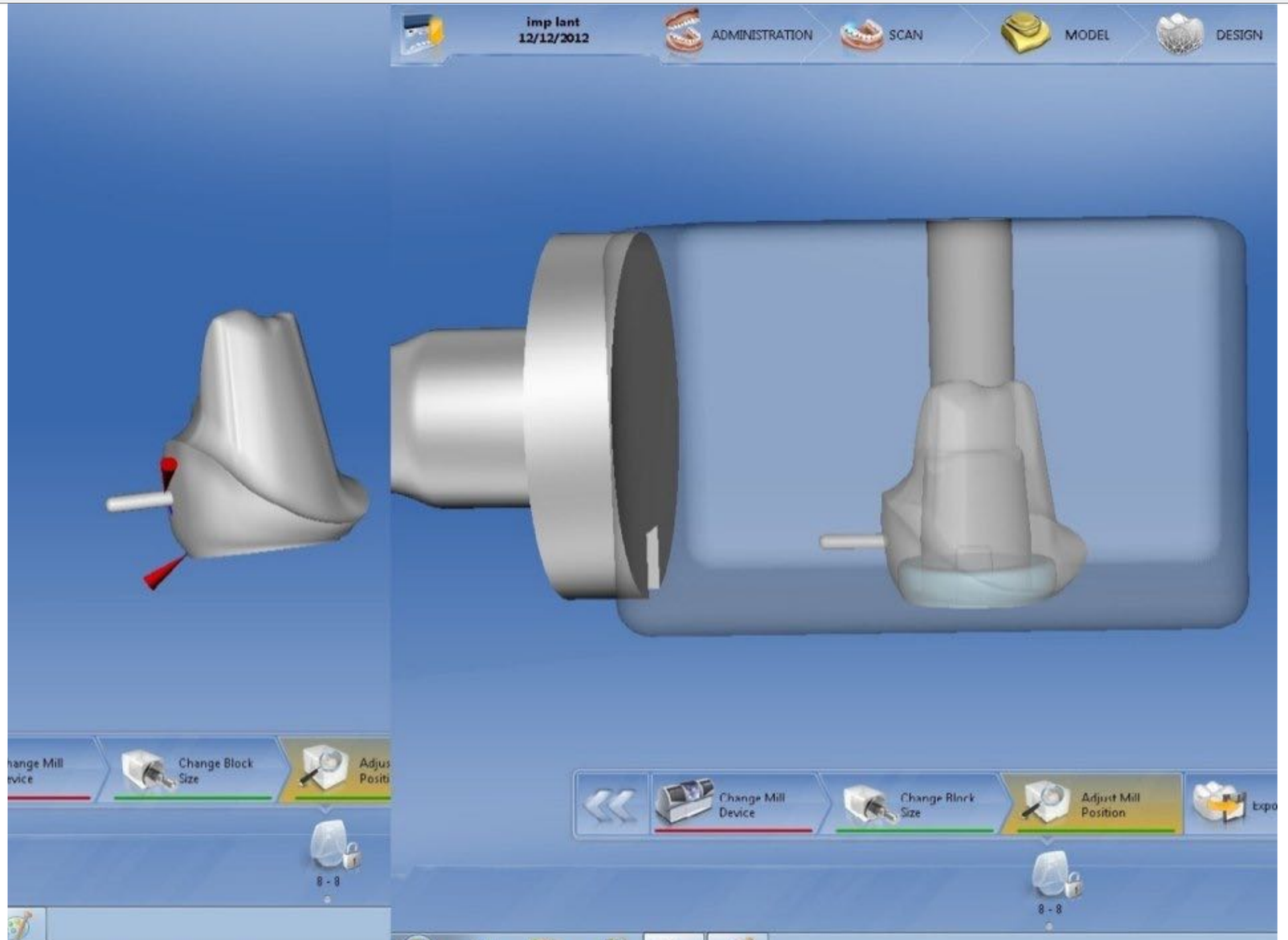
Part III: Administration, Acquisition, and Model

The “Notch”



Part III: Administration, Acquisition, and Model

The “Notch”



Part III: Administration, Acquisition, and Model

Scanning

Follow a set sequence so you don't forget anything.
Remember: the patient is going to leave!

-remove cover screw-

1. **Buccal Bite**
2. **Opposing Arch**
3. **Treatment Arch** (IP contacts are important here)

-place ScanPost and Scanbody-

4. **Scanbody Arch**

Move forward to process the models **while the patient is still there!**

Part III: Administration, Acquisition, and Model

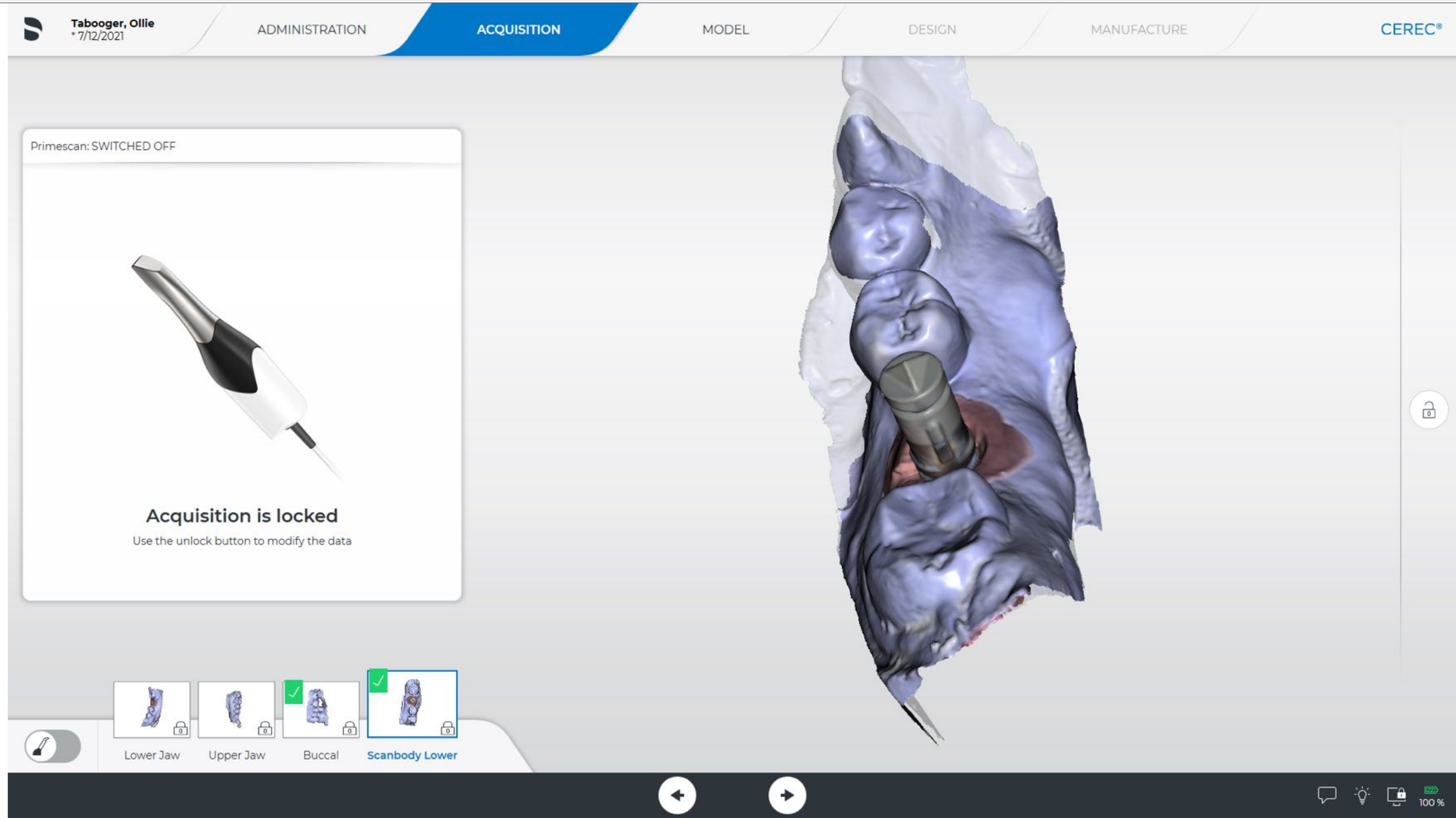
Model Phase: Overview

Finished scan will look like this…

Part III: Administration, Acquisition, and Model

Model Phase: Overview

Rotate to check the notch alignment before moving forward!



Part III: Administration, Acquisition, and Model

Model Phase: Overview

Rotate to check the notch alignment before moving forward!

Part III: Administration, Acquisition, and Model

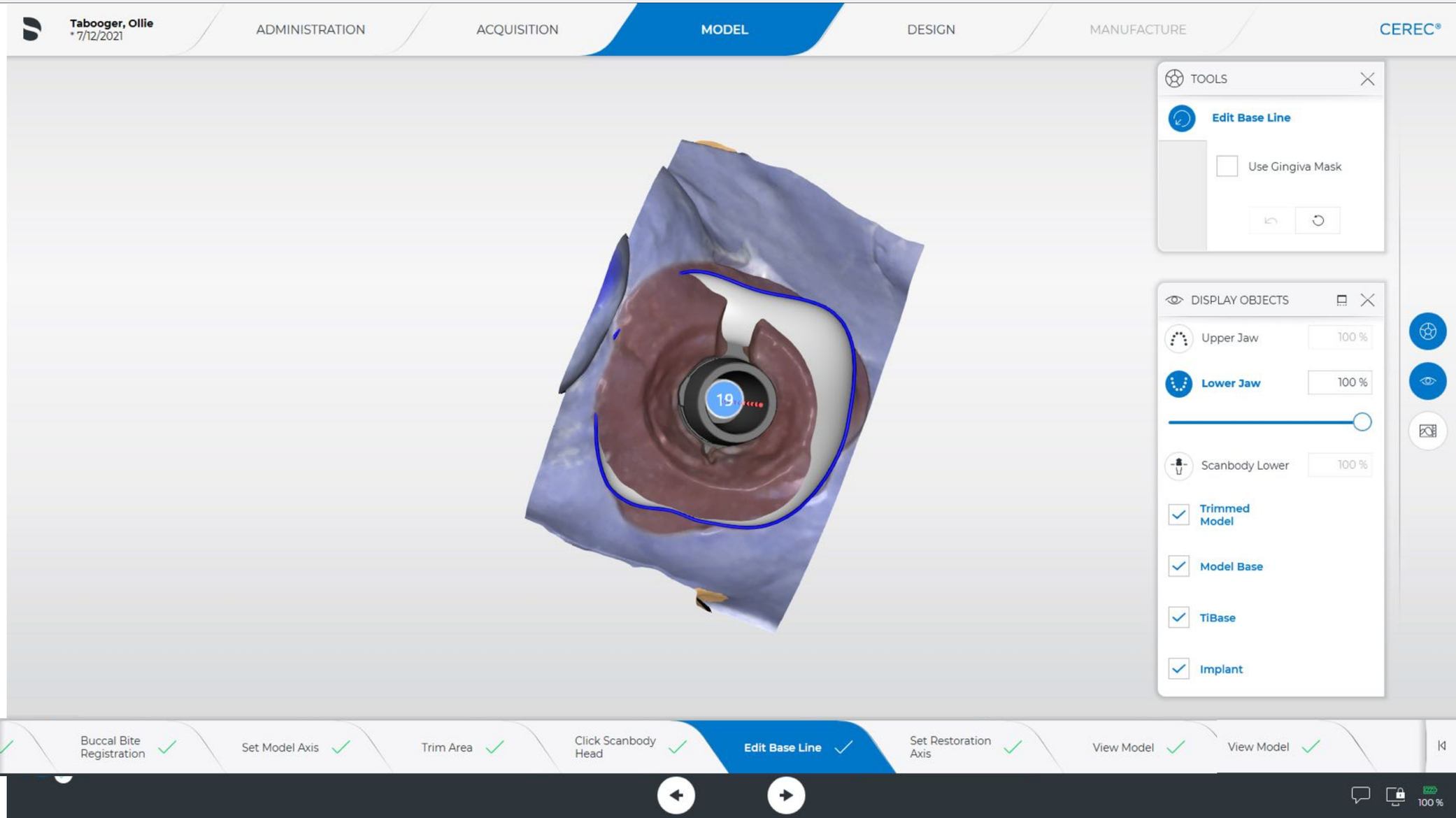
Scanning

Demo: Administration and Scanning

Part III: Administration, Acquisition, and Model

Model Phase: Overview

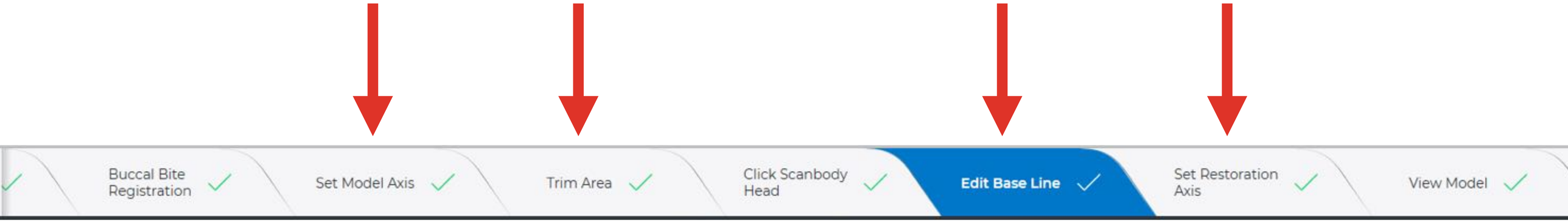
Some “automatic”steps are worth checking.



Part III: Administration, Acquisition, and Model

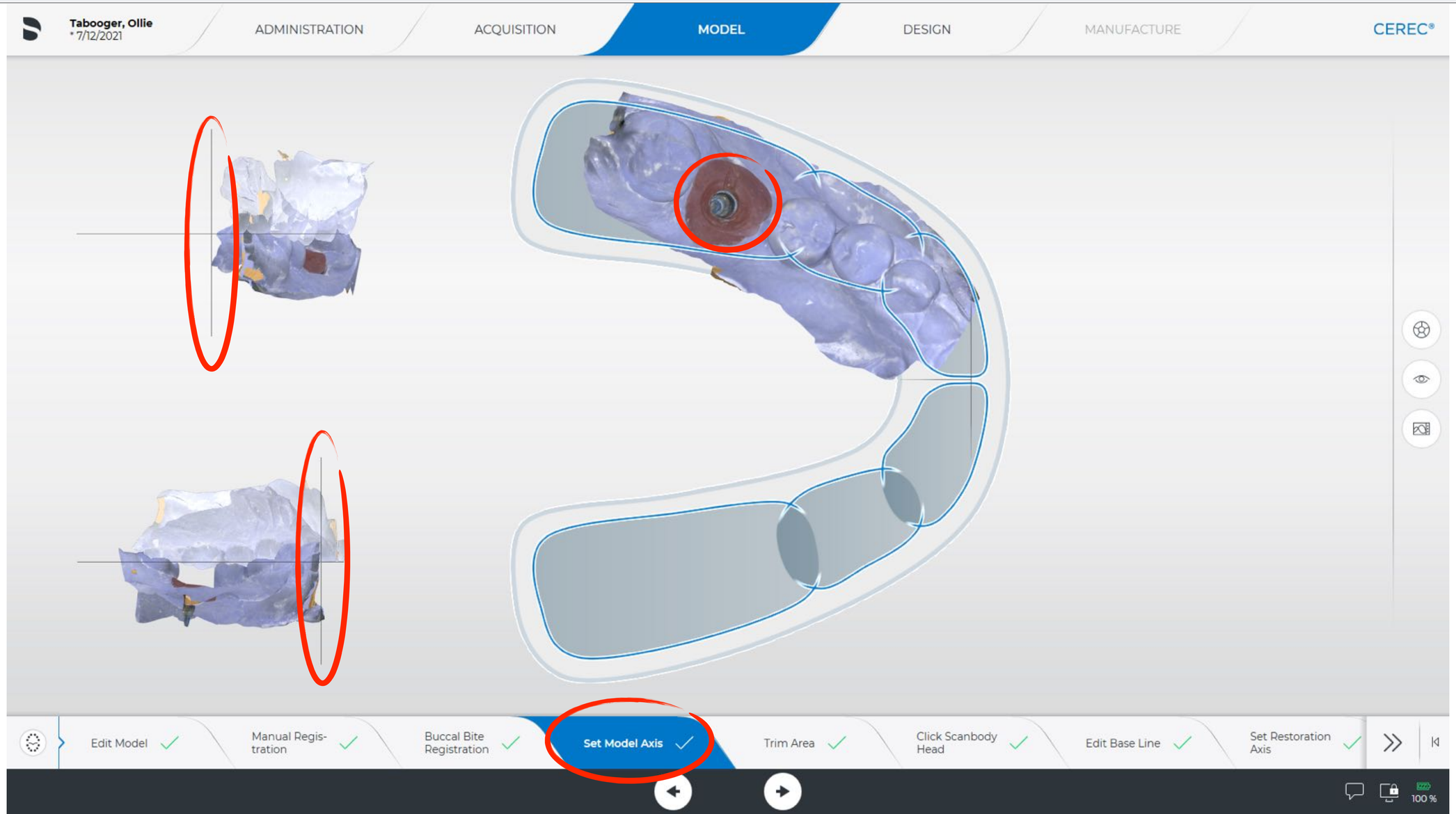
Model Phase: Overview

- Software will automatically take you to Edit Base Line
- Notice all items already have the green checkmark.
- Some steps are best to check before moving forward.



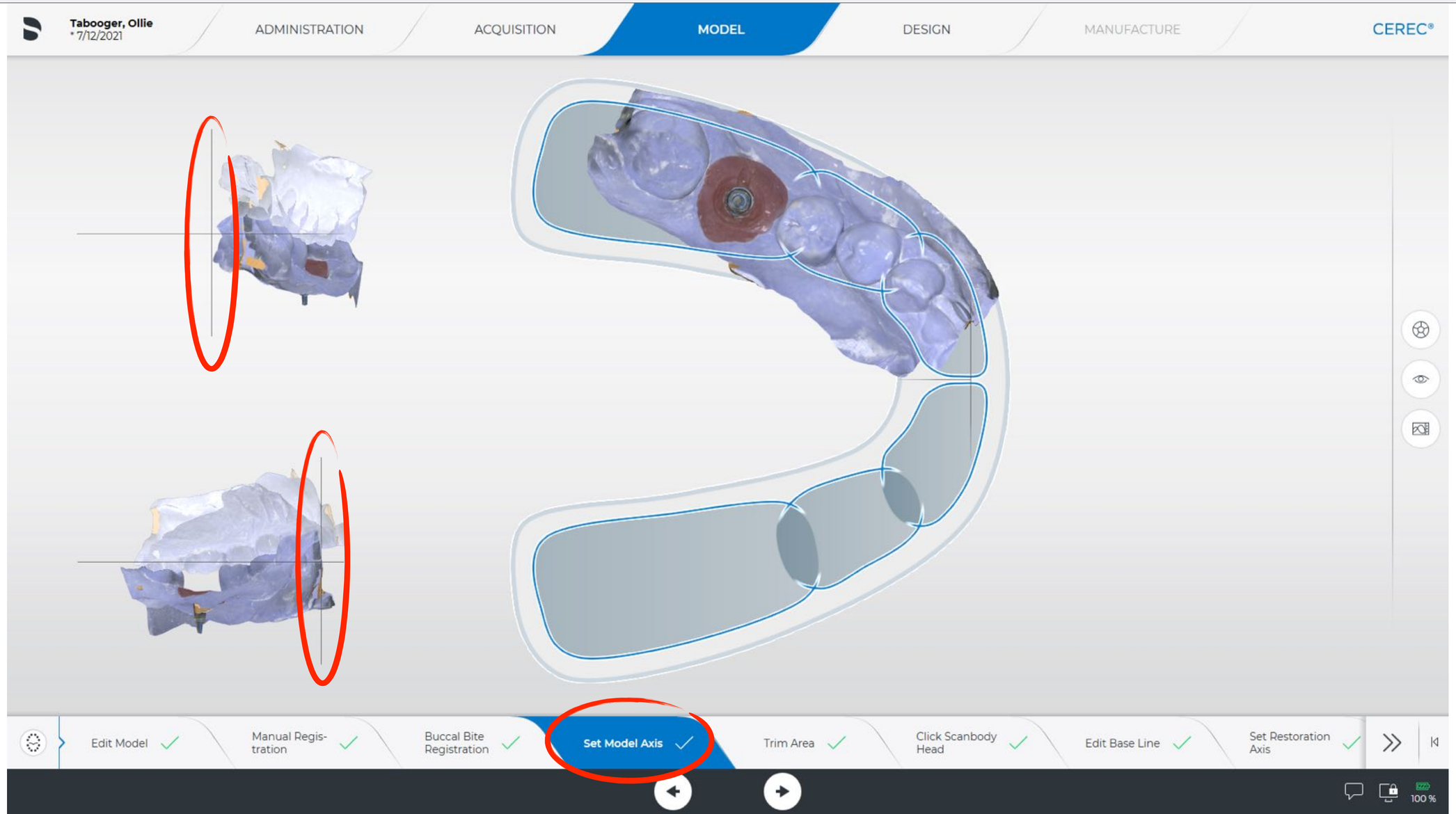
Part III: Administration, Acquisition, and Model

Model Phase: Set Model Axis



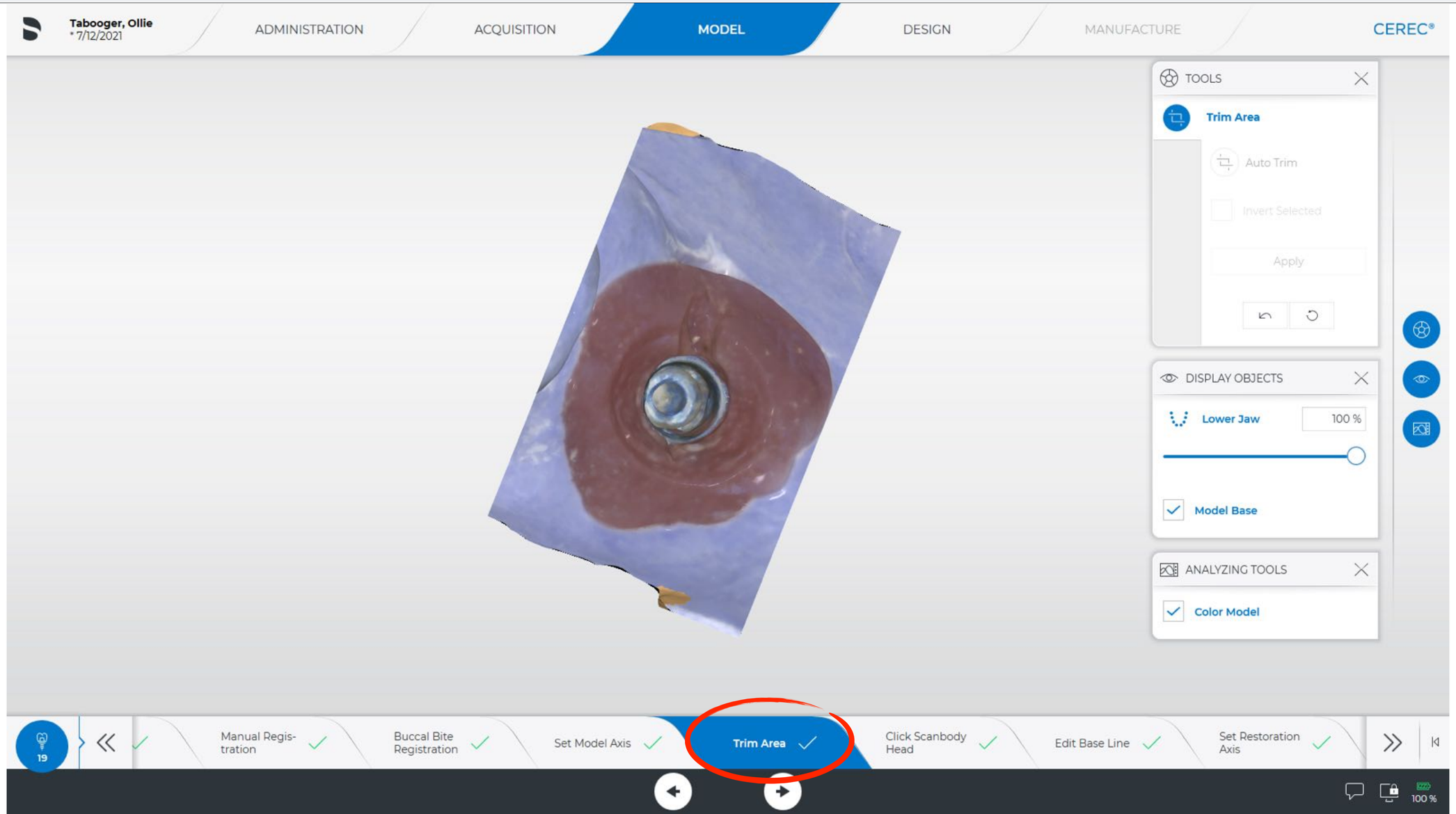
Part III: Administration, Acquisition, and Model

Model Phase: Set Model Axis



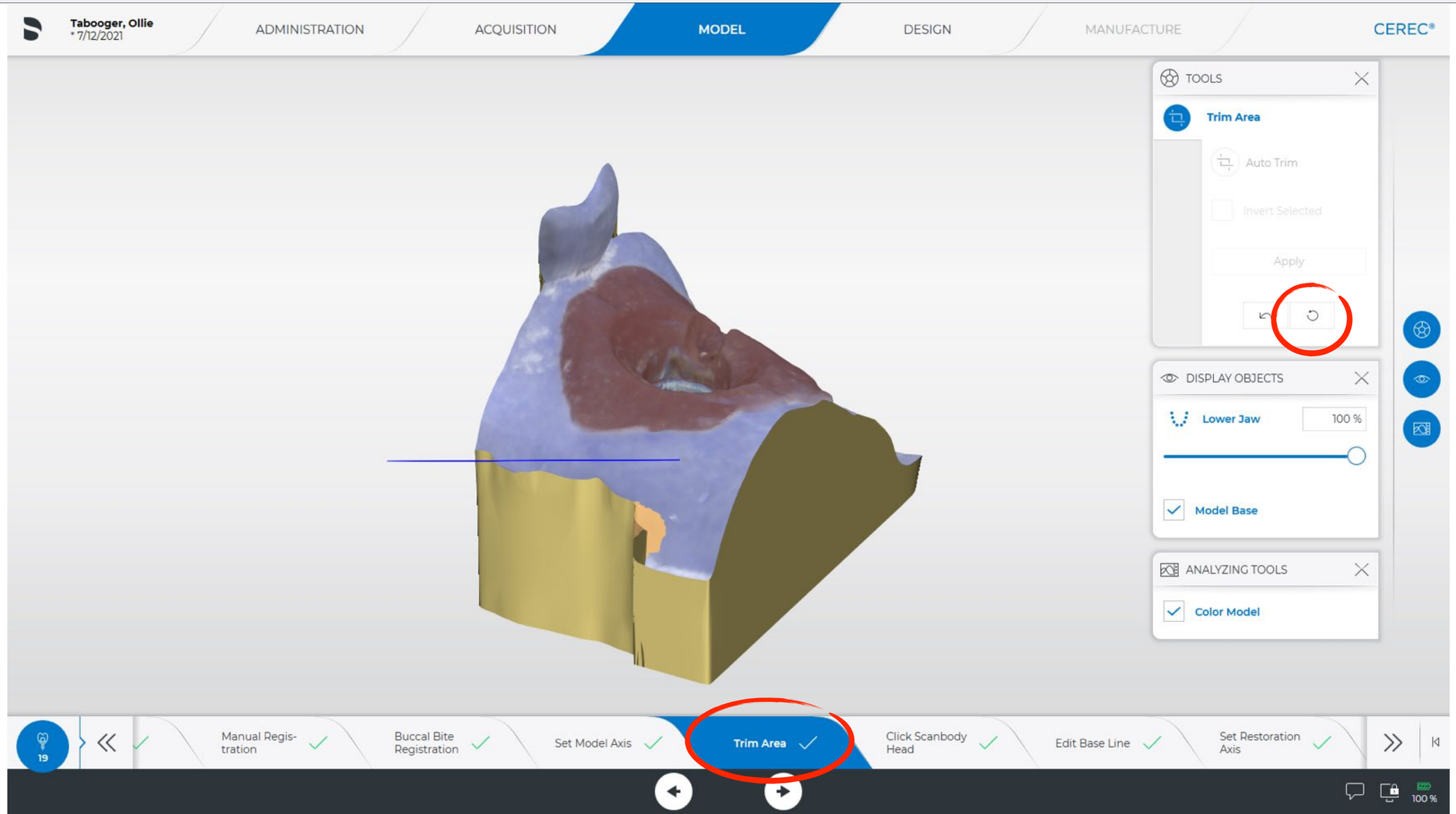
Part III: Administration, Acquisition, and Model

Model Phase: Trim Area



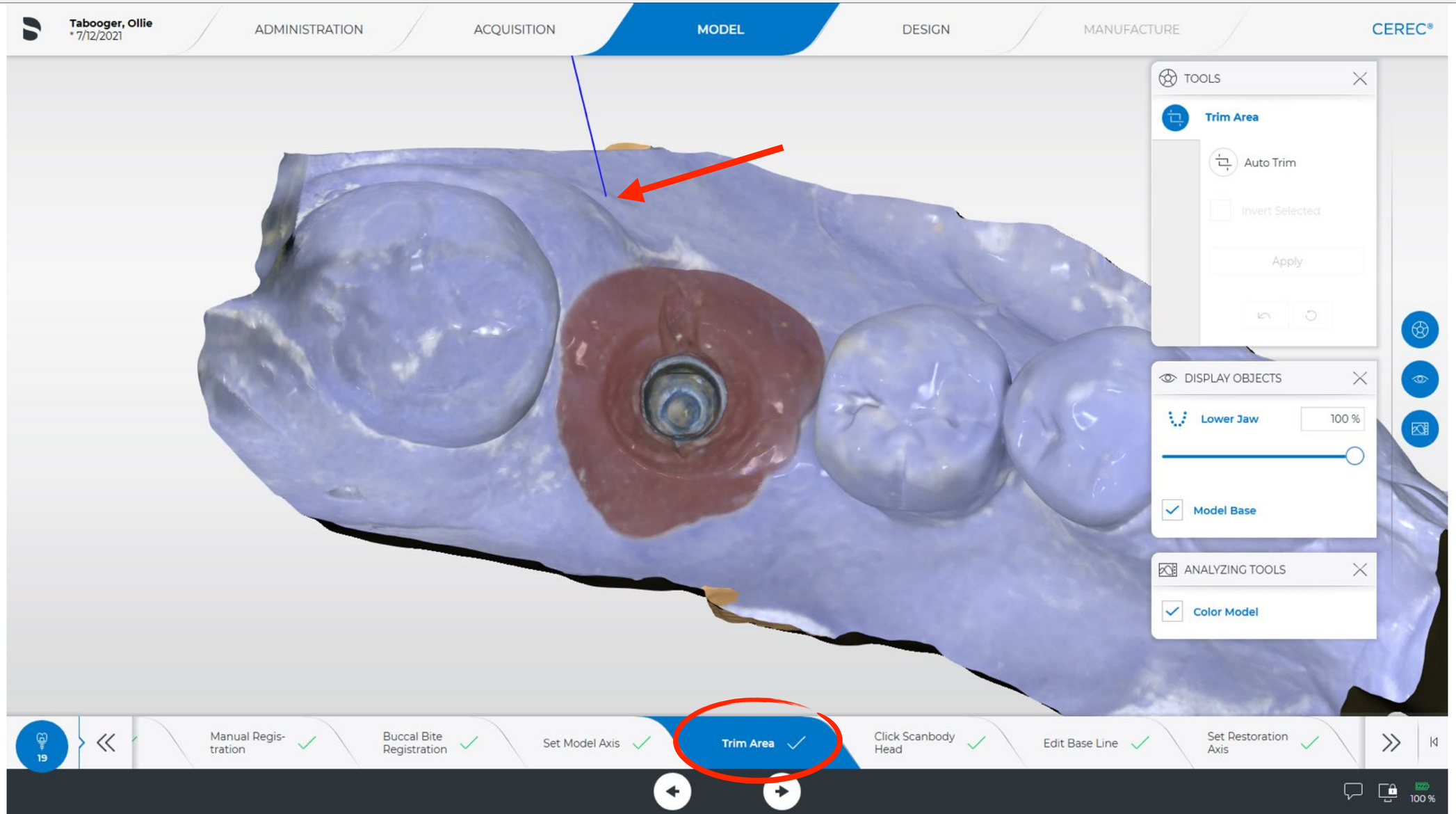
Part III: Administration, Acquisition, and Model

Model Phase: Trim Area



Part III: Administration, Acquisition, and Model

Model Phase: Trim Area



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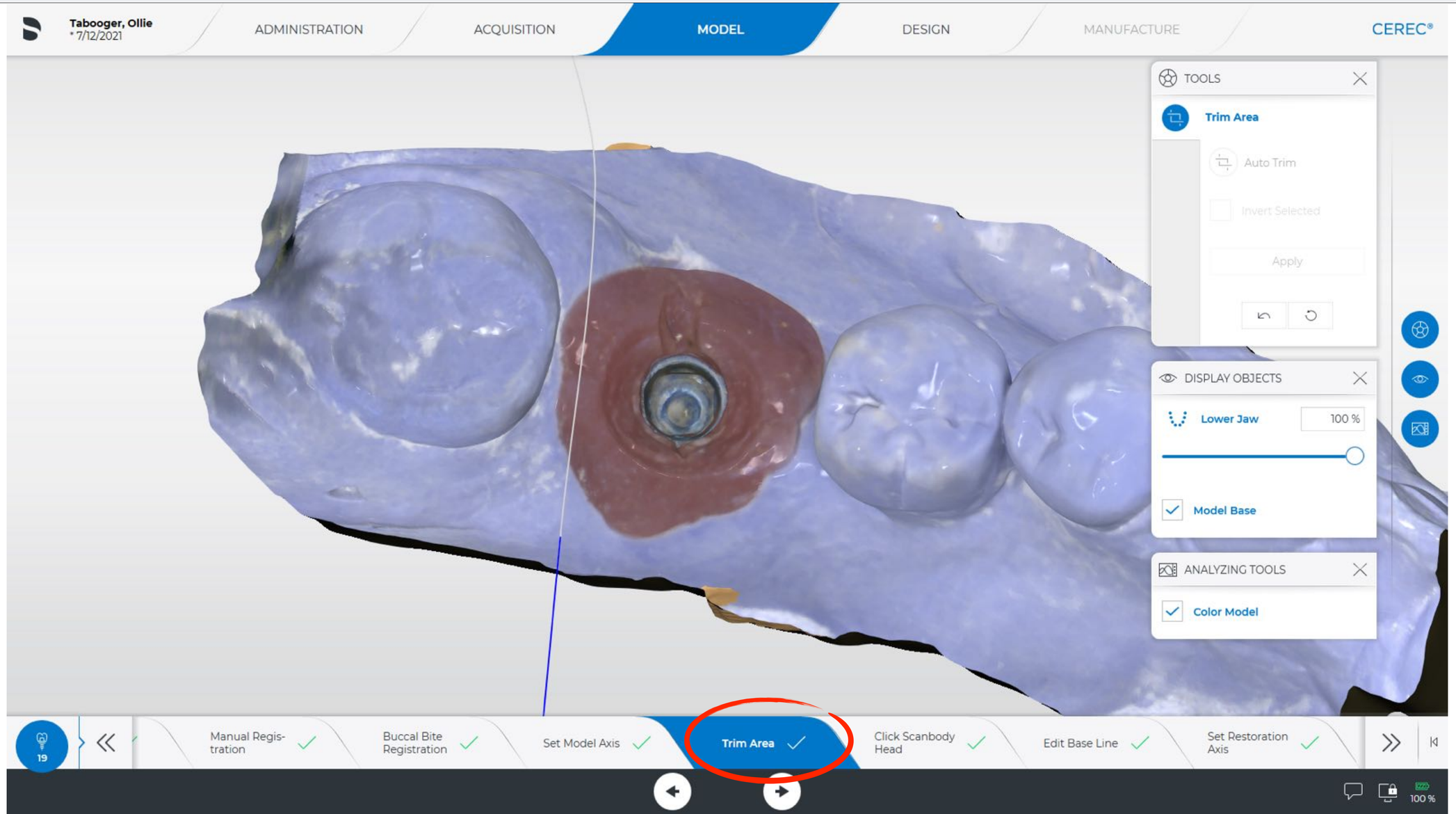
Model Phase: Trim Area



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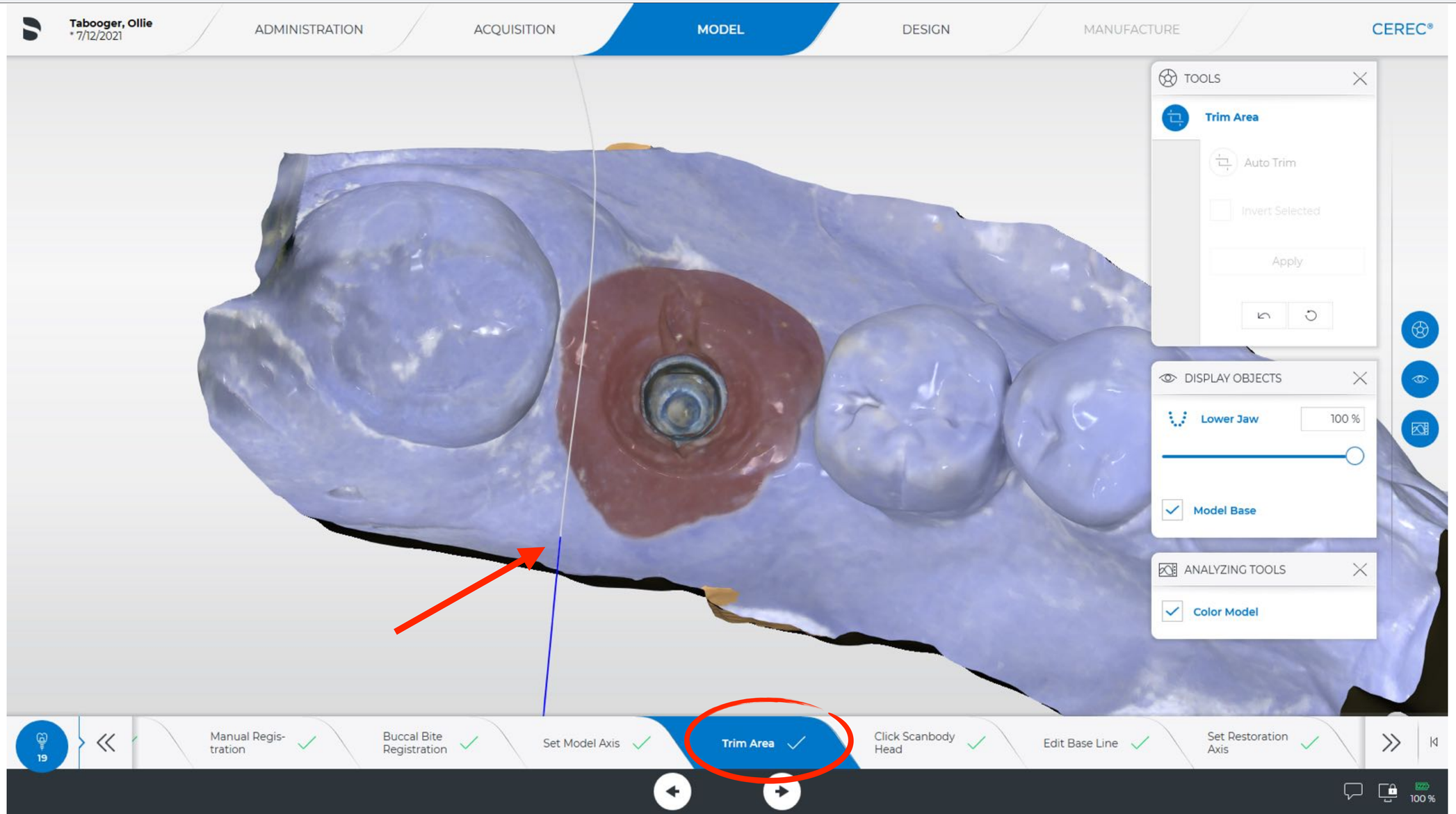
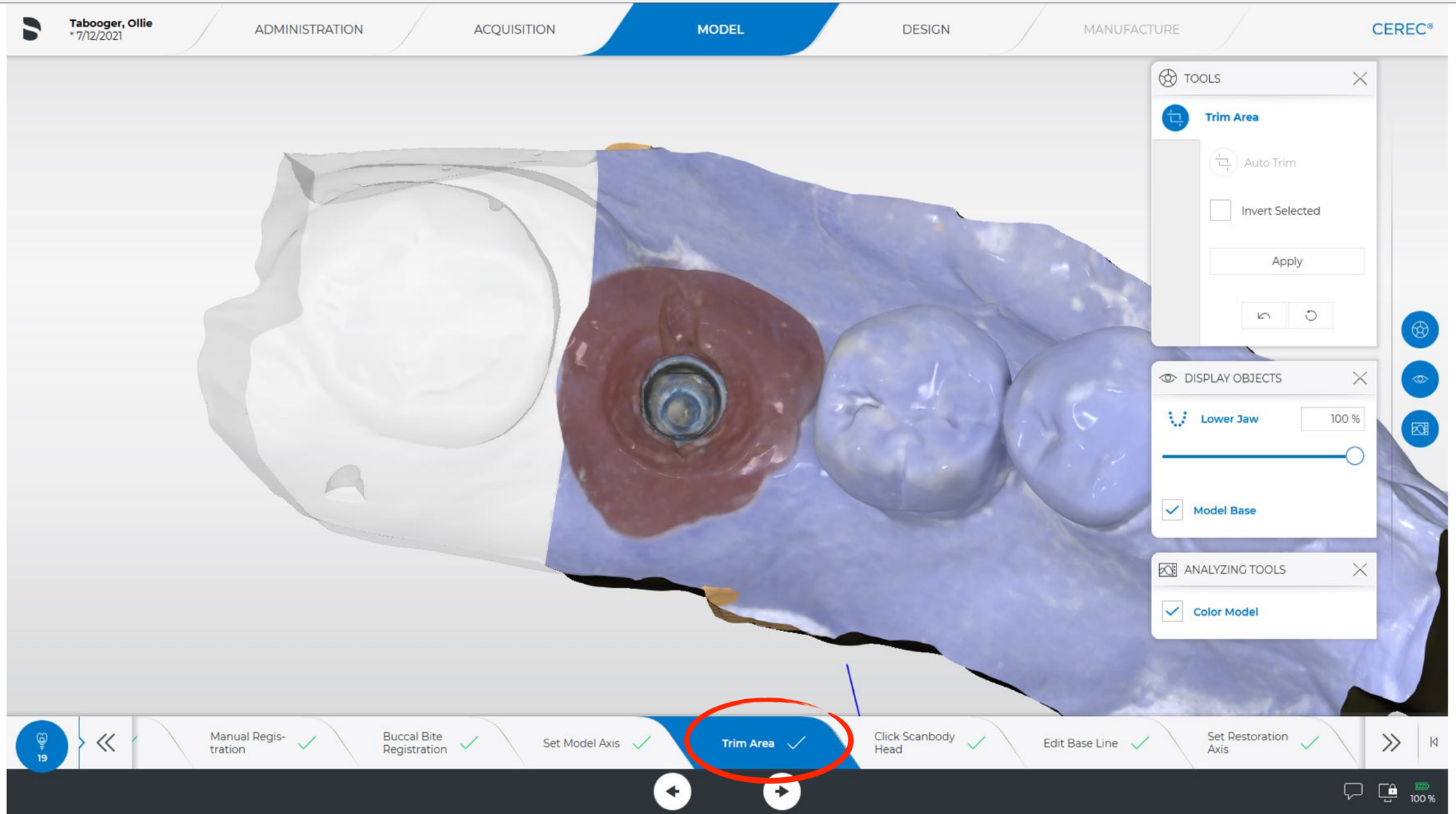
Model Phase: Trim Area



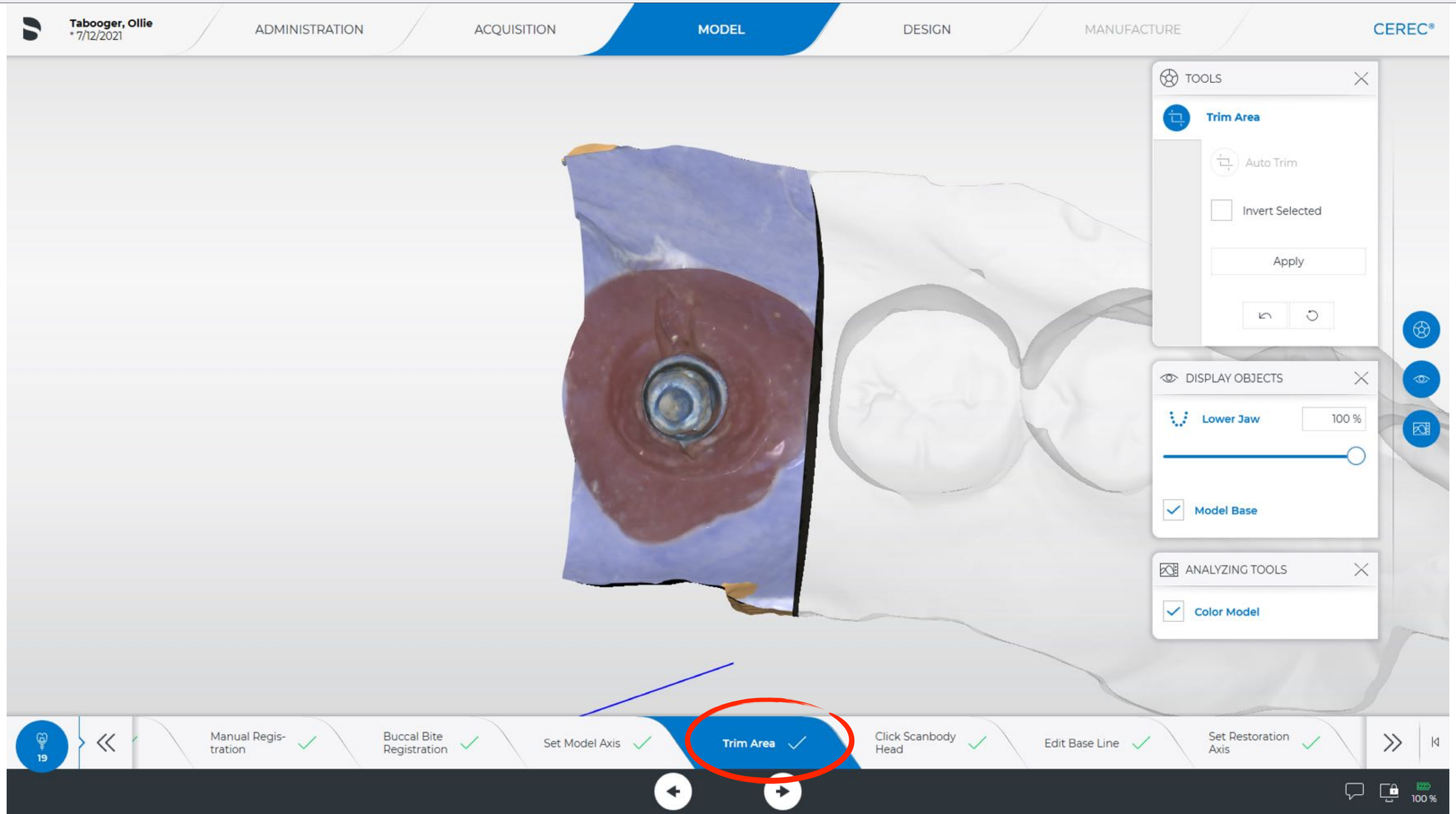
Part III: Administration, Acquisition, and Model

Model Phase: Trim Area



Part III: Administration, Acquisition, and Model

Model Phase: Trim Area



Part III: Administration, Acquisition, and Model

Model Phase: Edit Base Line

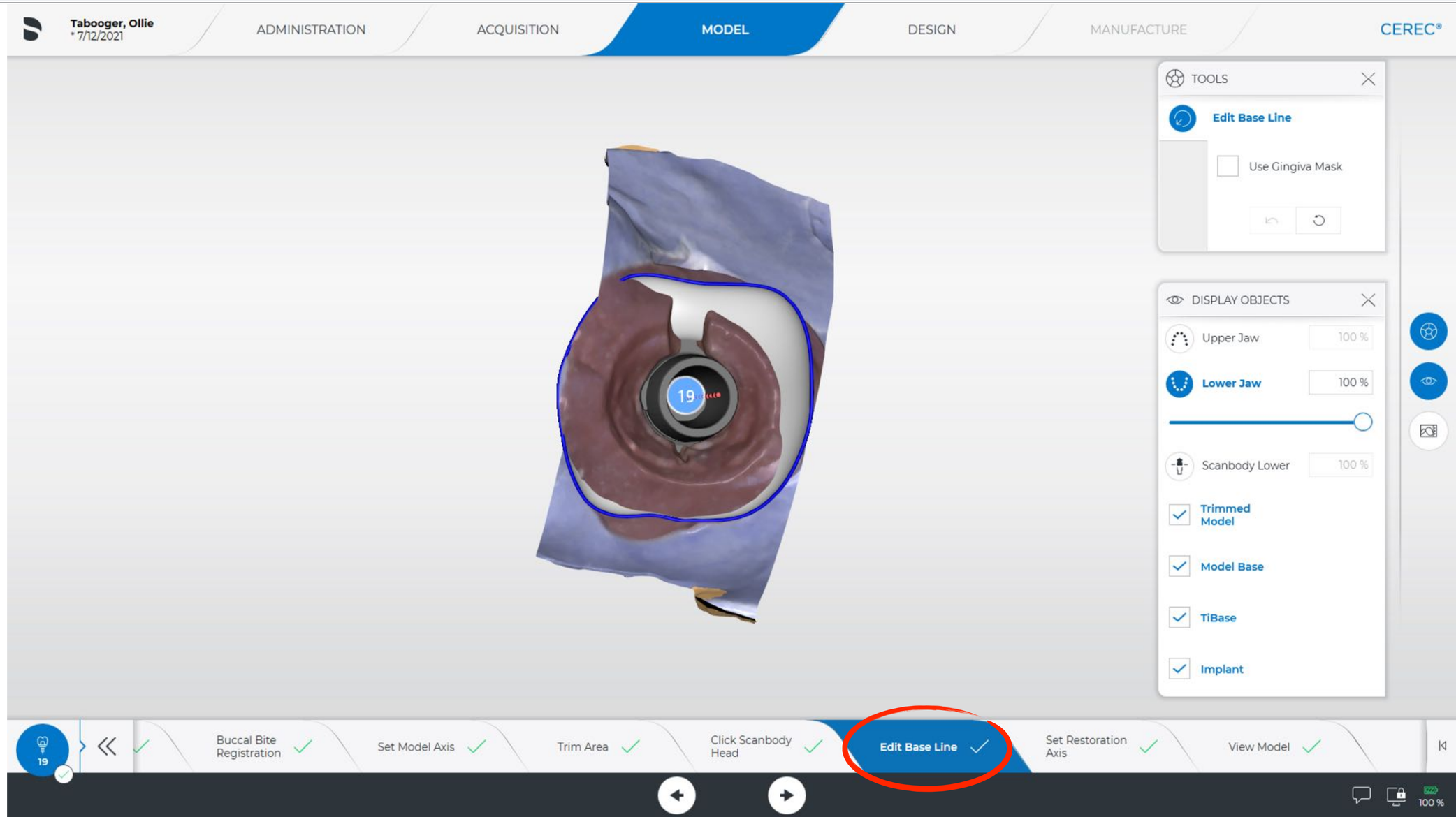
Gingival Mask

Here we must make a choice:

- use the tissue contour as scanned (on)
- or not (off).

- Default is off.

- Why?



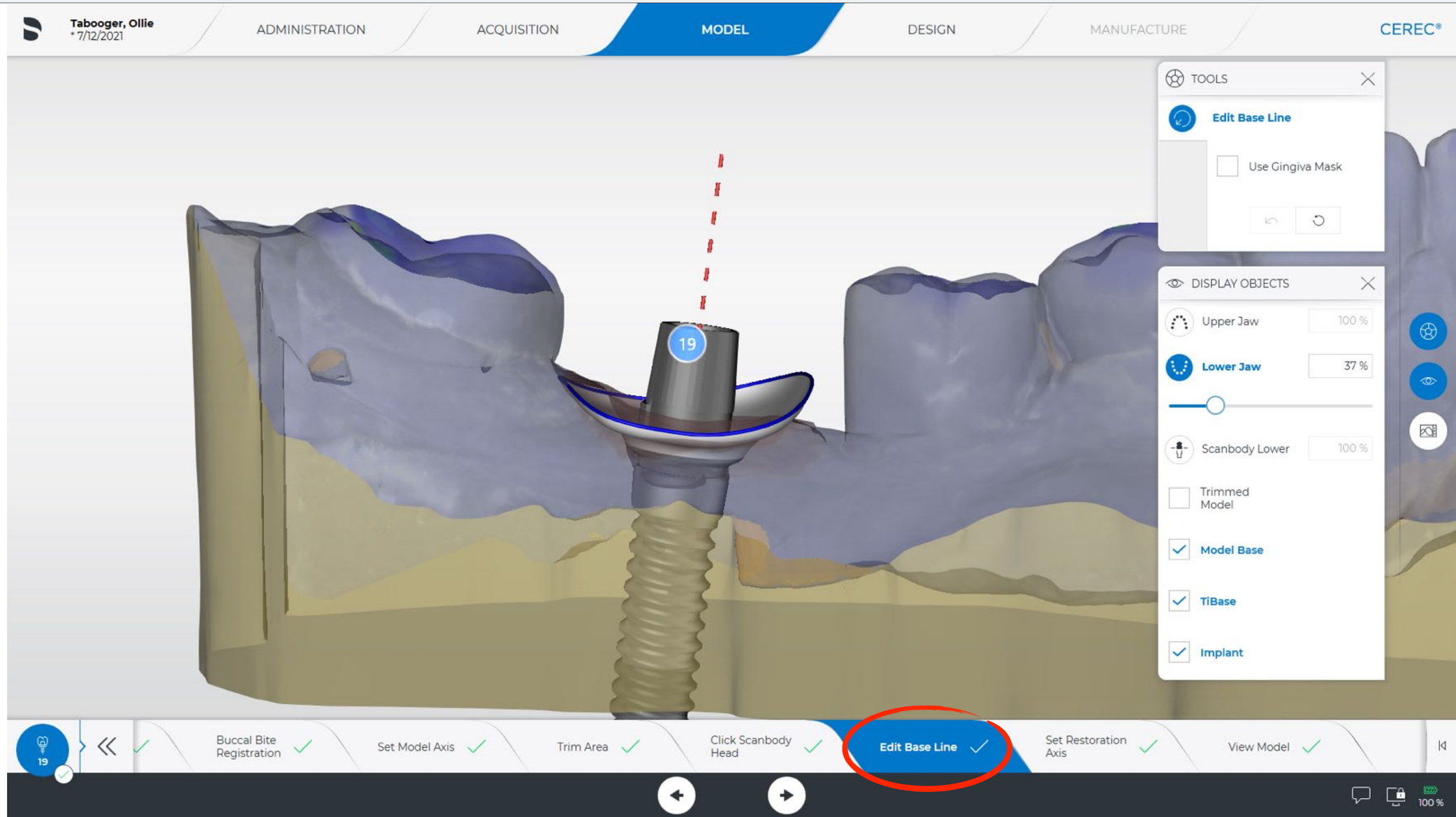
Part III: Administration, Acquisition, and Model

Model Phase: Edit Base Line

Gingival Mask

When off:

- **flying saucer**
- **can be edited**

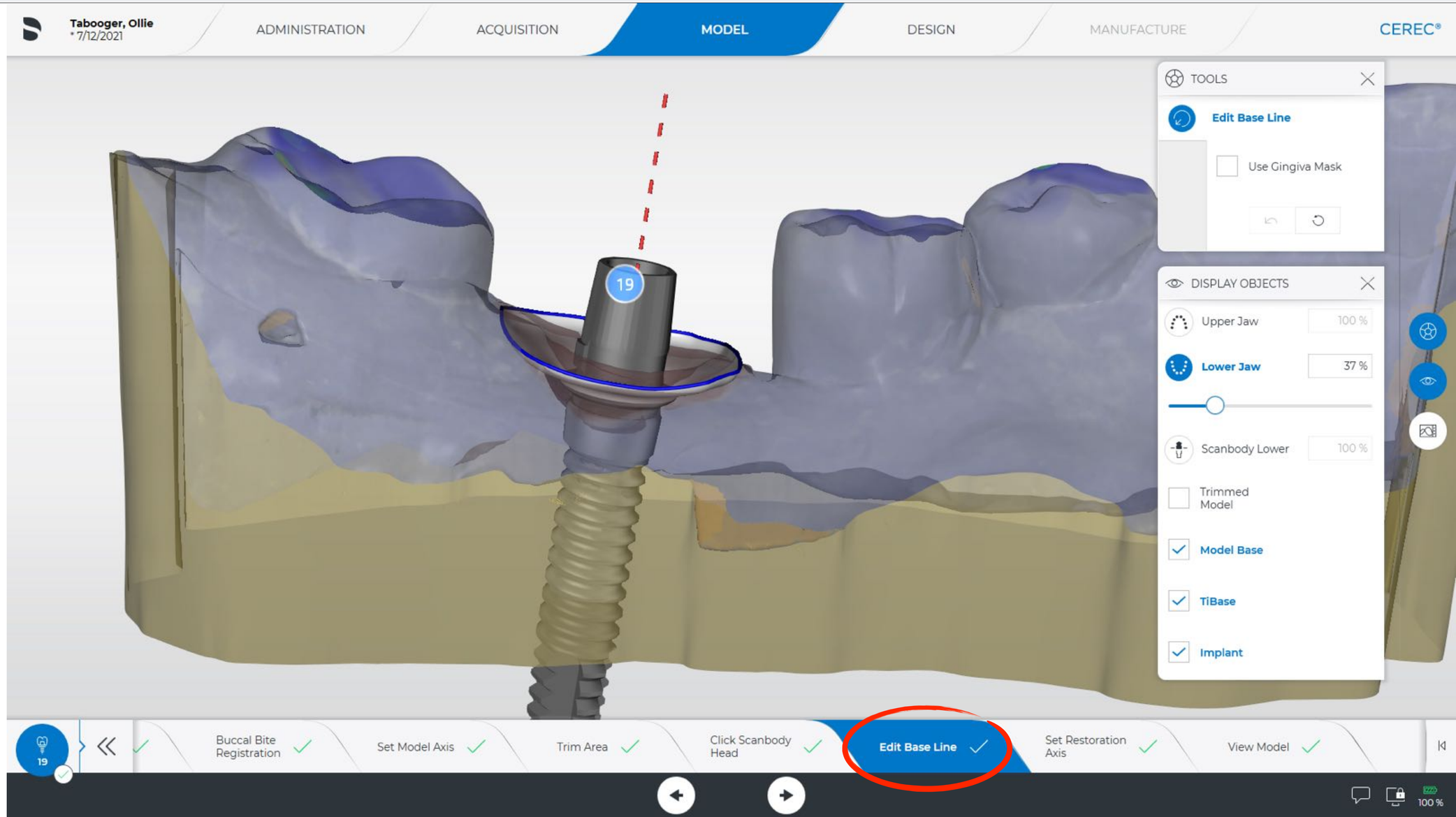


Part III: Administration, Acquisition, and Model

Model Phase: Edit Base Line

Gingival Mask

After editing.



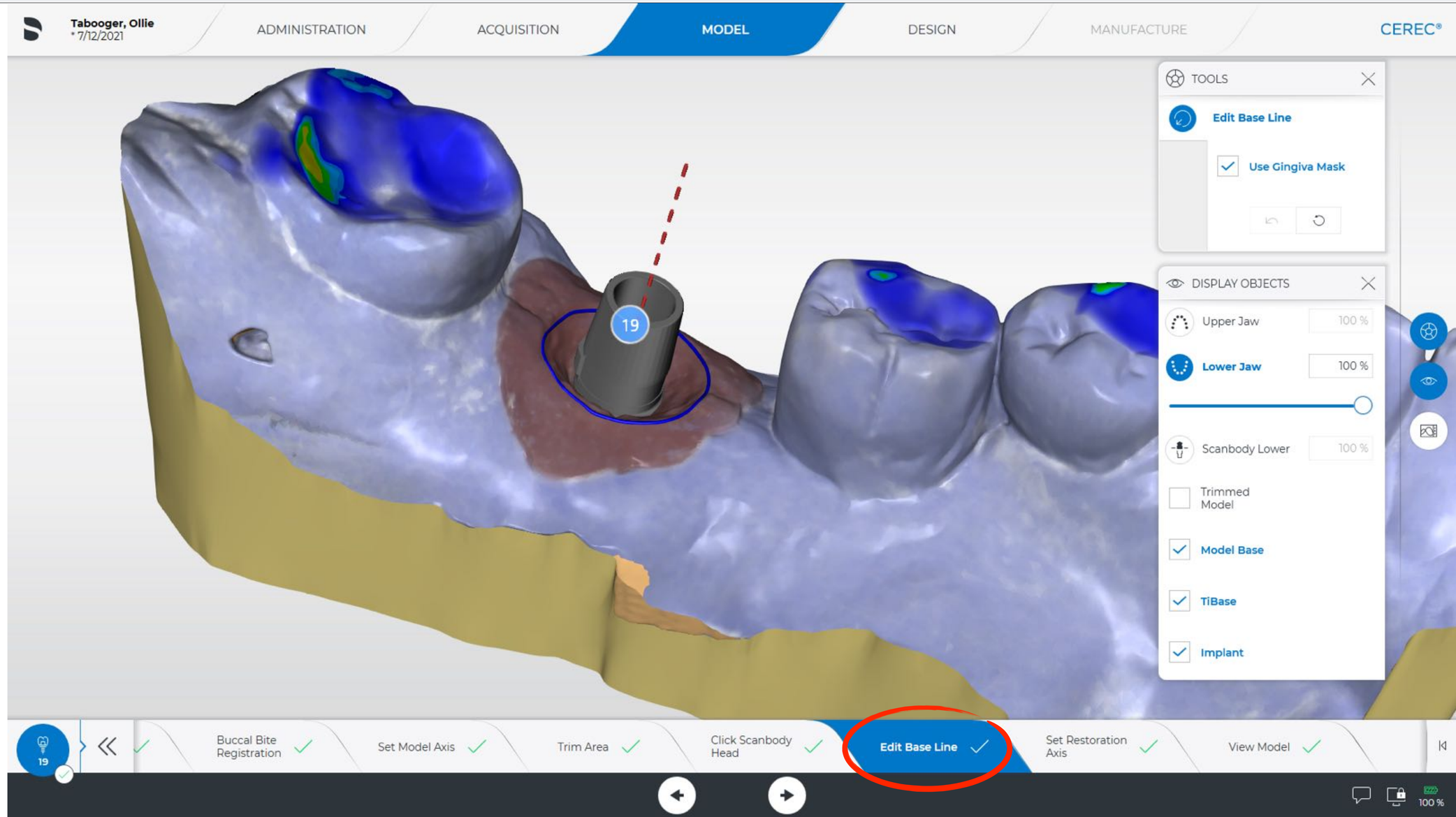
Part III: Administration, Acquisition, and Model

Model Phase: Edit Base Line

Gingival Mask

When on:

- can be edited
- will “biocopy” area from fixture to line.

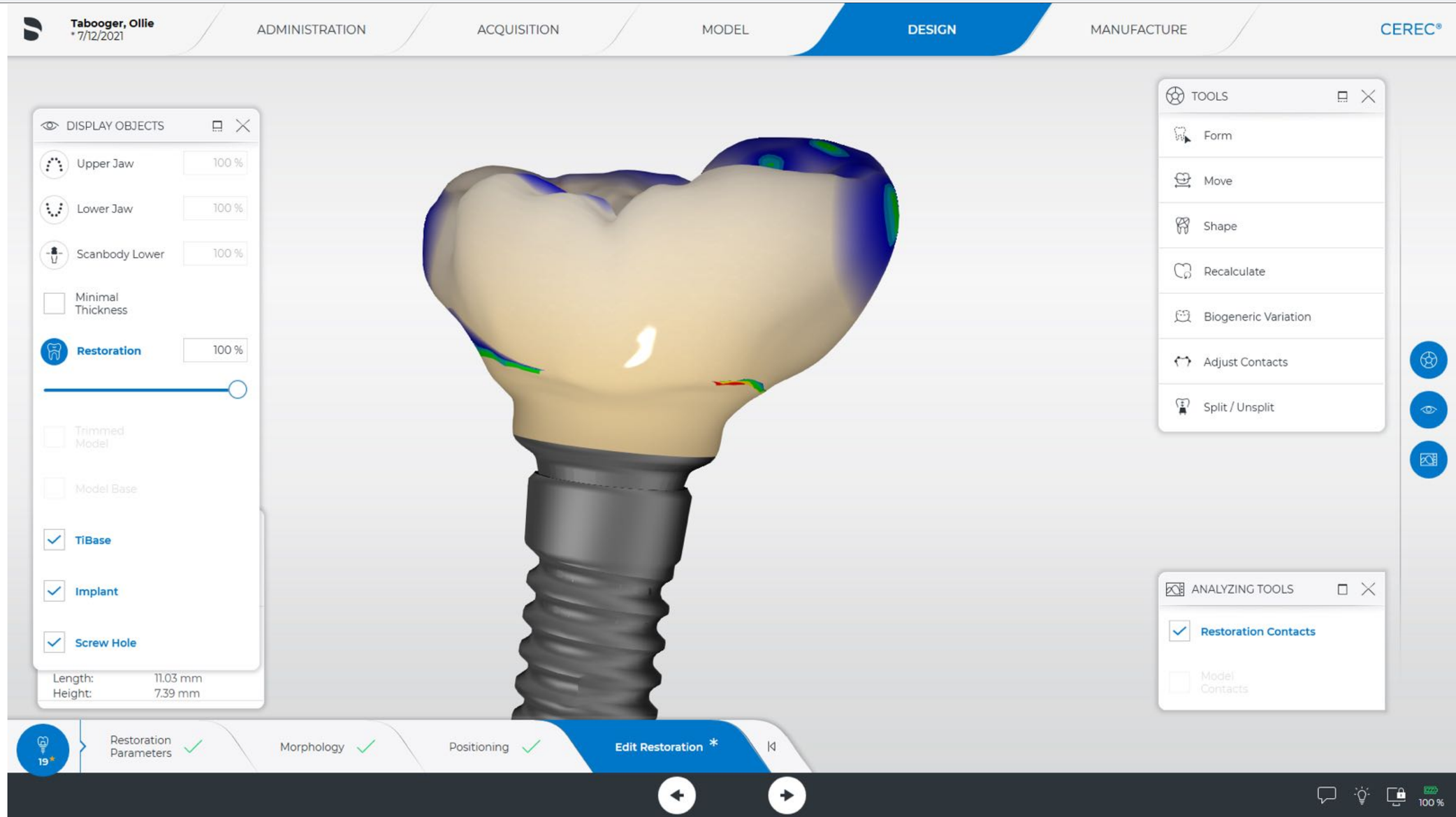


Part III: Administration, Acquisition, and Model

Model Phase: Edit Base Line

Gingival Mask

Result: on

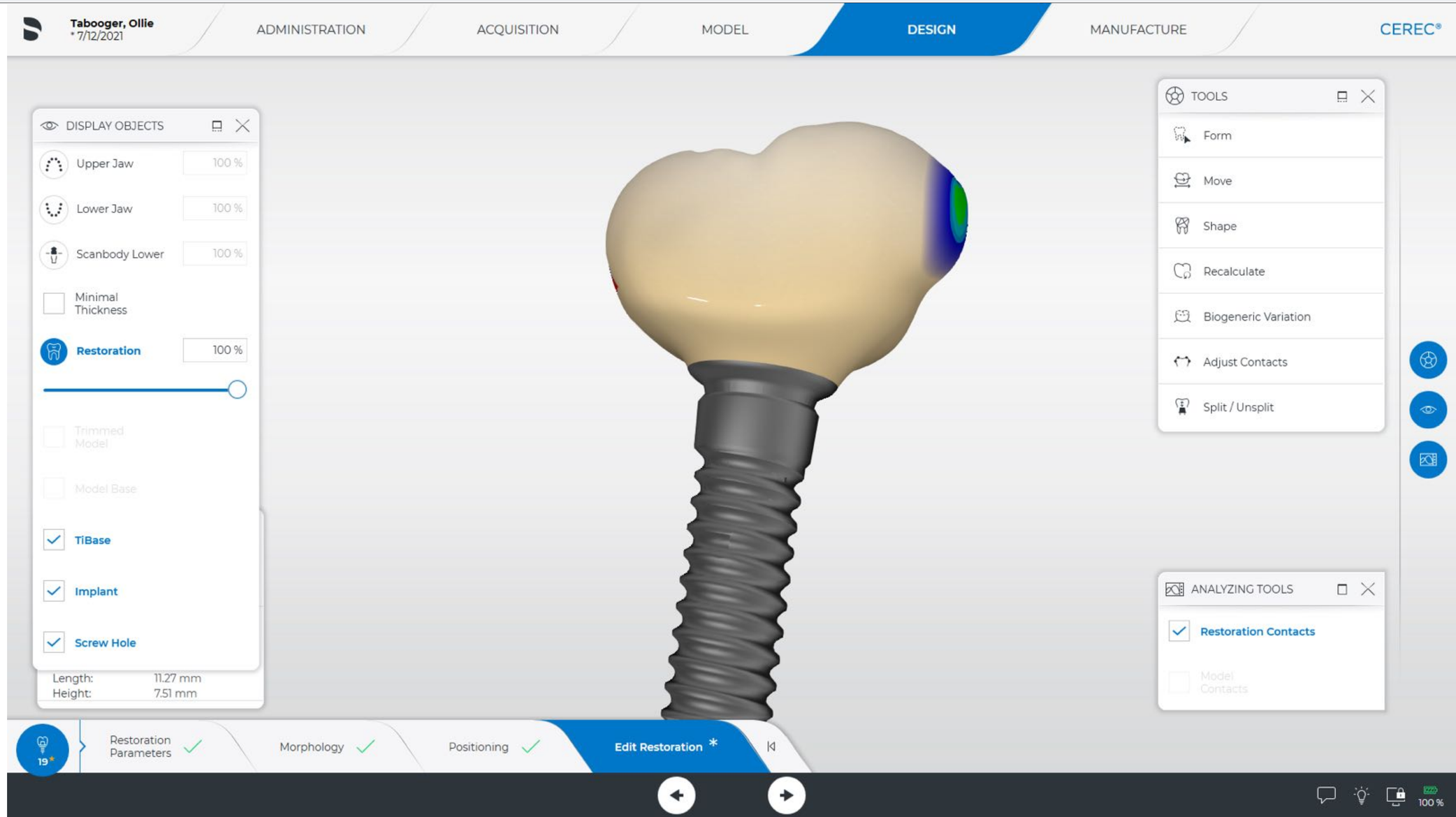


Part III: Administration, Acquisition, and Model

Model Phase: Edit Base Line

Gingival Mask

Result: off

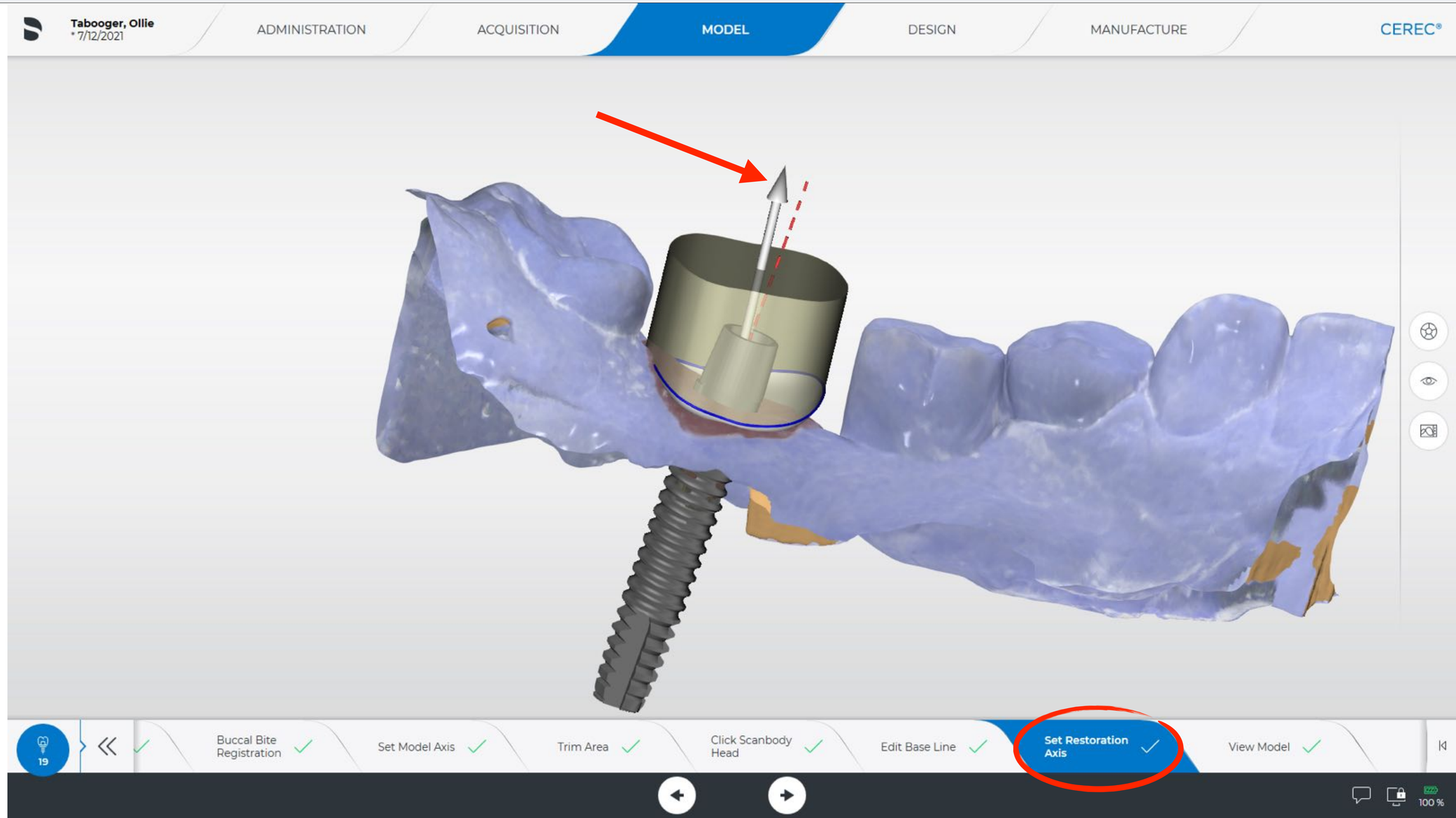


Part III: Administration, Acquisition, and Model

Model Phase: Set Restoration Axis

Adjust Axis

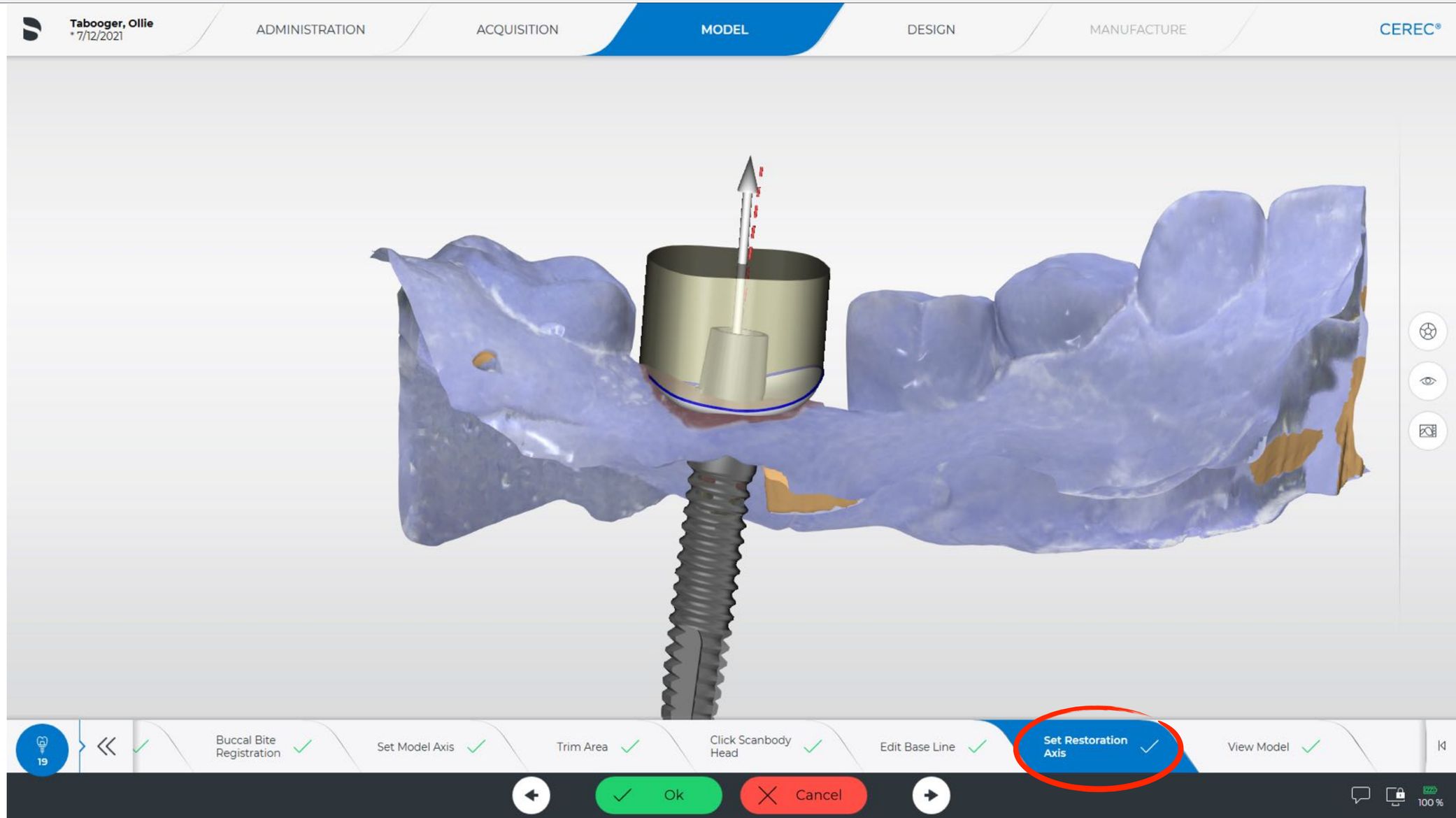
Move the arrow so the cylinder lines up with the desired restoration.



Part III: Administration, Acquisition, and Model

Model Phase: Set Restoration Axis

- Adjustment is limited to about 20º.
- Will turn red if you angle too far.
- **Be careful about path of draw!**



Part III: Administration, Acquisition, and Model

Model Phase

Demo: Model Phase

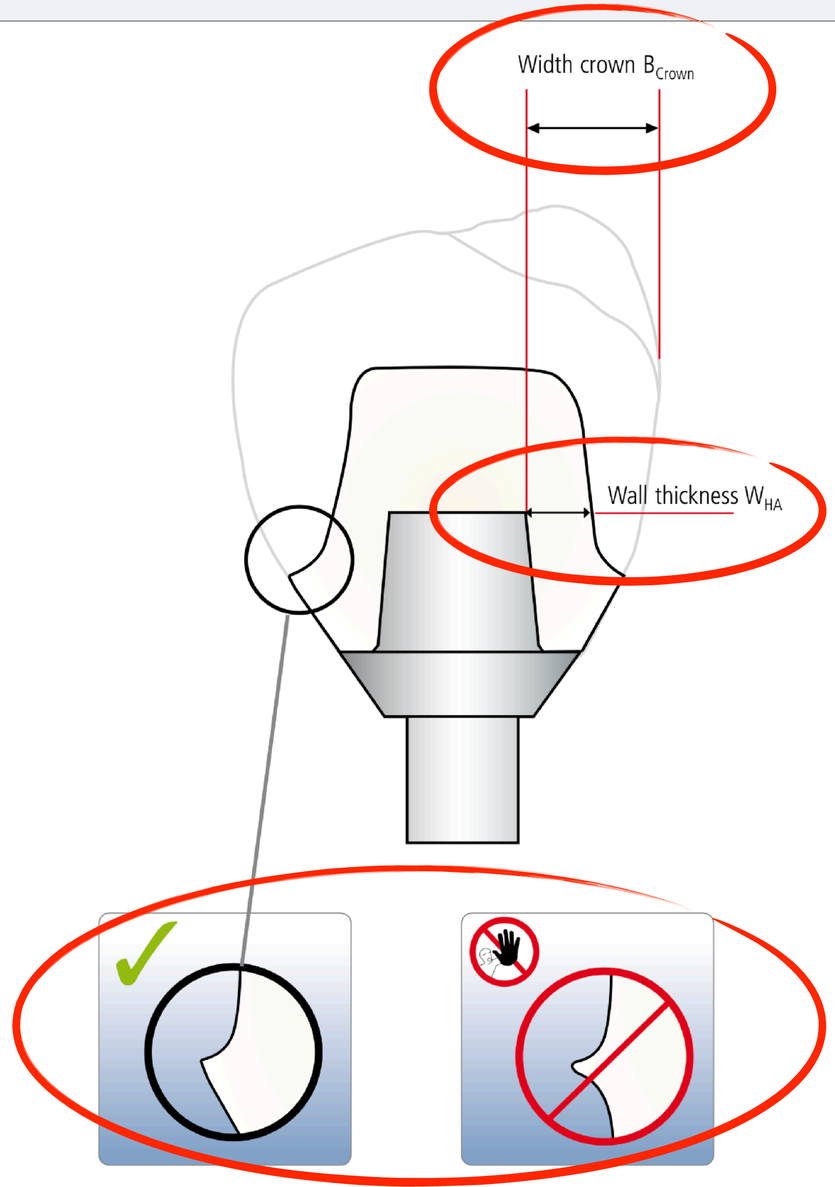
Part IV: Design & Manufacture

Part IV: Design & Manufacture

General Guidelines

Abutment

- 0.5+mm wall
- 6mm max from screw channel
- 90º angle at transition point
- **no contact at screw channel**



Part IV: Design & Manufacture

Things to Remember

- Assess tissue quality
- Monitor tissue pressure
- Complete your design before split
- Split above the tissue for ease of cementation
- **Be aware of insertion path (grid tool helpful)**

Part IV: Design & Manufacture

Design Phase

Demo: Design Phase

Part V: Assemble & Deliver

Part V: Assemble & Deliver

Sequencing

- Some prefer to crystallize/glaze/polish and assemble prior to the delivery appointment; others prefer to try-in first.

- The Ti Base fits snugly in the crown for try-in.

- Once cemented together, you cannot place it in the oven again (i.e. no adding contacts or stain/glaze)! Make sure your shade is correct prior to final assembly.

Part V: Assemble & Deliver

Remove the attachment

Part V: Assemble & Deliver

Test the fit

Part V: Assemble & Deliver

Remove the sprue

Part V: Assemble & Deliver

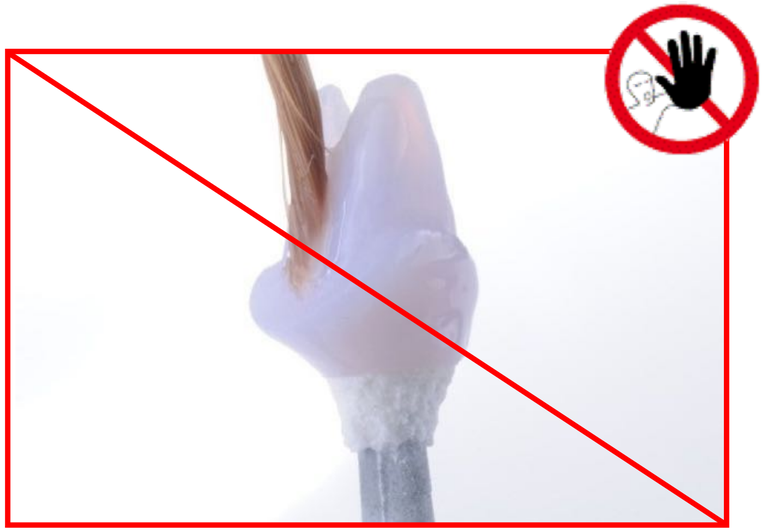
Try in (optional)

Part V: Assemble & Deliver

Polish or Stain & Glaze

- You may stain (**not glaze**) the area of an abutment that will be bonded to the crown. Stain will not reduce your bond.

- Polish is recommended for areas that will contact tissue.



Part V: Assemble & Deliver

Crystallize

- **MO Abutment: Cycle P3**
- **Hybrid Abutment/Crown: Cycle P2**

(other ovens: ask your Ivoclar rep)

Part V: Assemble & Deliver

Assembly Step 1: Sandblast Ti Base

TIP: Use a piece of foam as a sandblast base!

Sandblast bonding surface only!

Part V: Assemble & Deliver

Assembly Step 2: Monobond Plus

- Ti Base only
- 60 seconds then air dry
- No rinse
- Easiest while still in foam

Part V: Assemble & Deliver

Assembly Step 3: Ivoclean (if needed)

- 20 seconds
- Rinse and dry

Part V: Assemble & Deliver

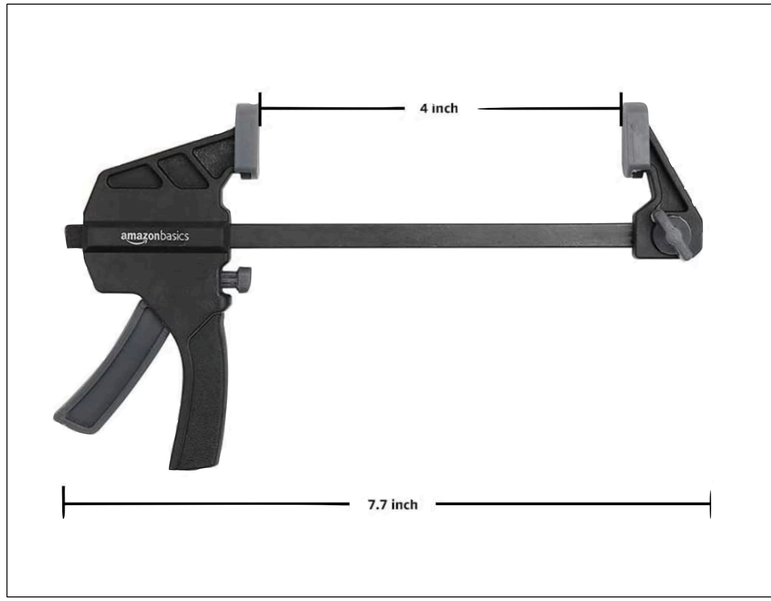
Assembly Step 4: Monobond Etch and Prime

- Apply/agitate 20 seconds
- Wait 40 seconds
- Rinse and dry
- Bonding surface only
- Entire screw channel

Part V: Assemble & Deliver

Assembly Step 5: Apply cement and join

- use sparingly
- twist to “find” the notch and press firmly together
- clean up excess with cotton roll
- clamp and self (not dual) cure: 6 minutes



Part V: Assemble & Deliver

Assembly Step 6: Polish Juncture

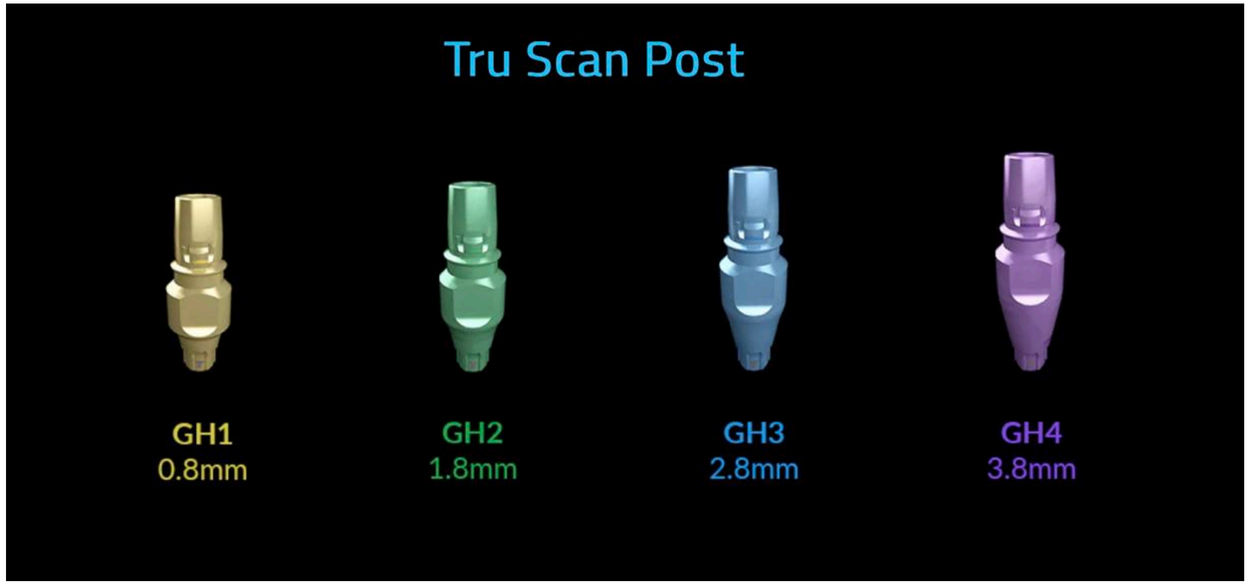
fine football carbide or rubber wheel

stiff Robinson Wheel with diamond paste

Random Tips & Tricks

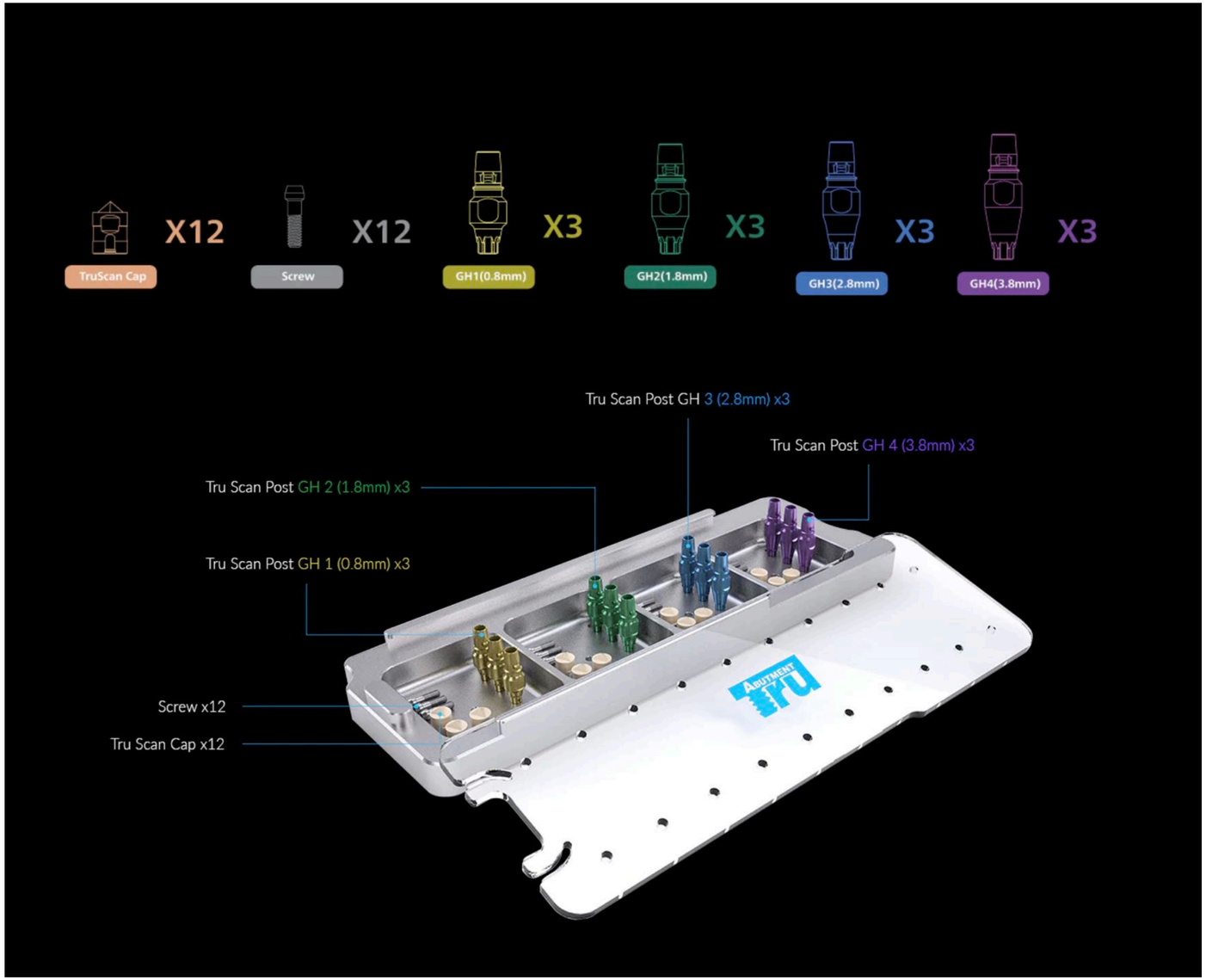
Random Tips & Tricks

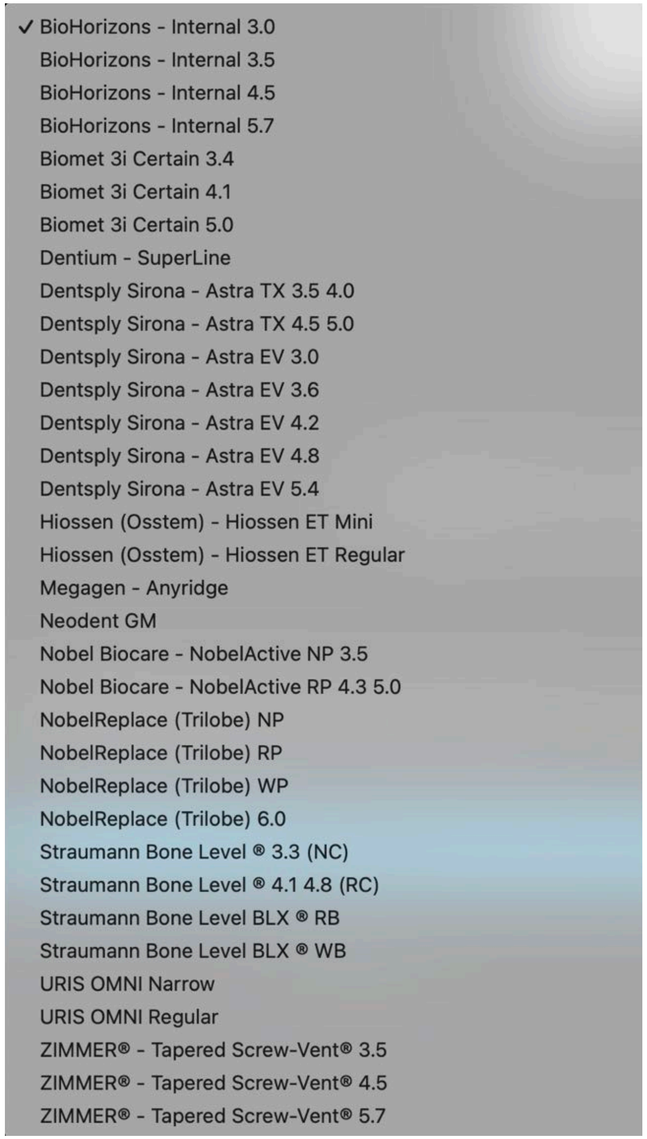
Gingival Height Adjustments



Random Tips & Tricks

Gingival Height Adjustments





Random Tips & Tricks

TiBase Stuck?

Random Tips & Tricks

Miscellaneous

- Using the grid tool to reduce embrasures
- 12S not 12 (not an issue with PrimeMill)
- Milling times
- What about a screw-retained bridge?
- Ti Base too tall?

Thanks!

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