



Digital Implant Treatment Planning

Utilizing SimPlant™

Partially Edentulous Cases

Introduction

Through three-dimensional imaging and virtual software, you have a tremendous amount of information to plan your implant cases including the patient's anatomy and the ideal prosthetic positions of the teeth to be replaced. Our digital implant treatment planning service allows you to easily integrate this technology into your practice.

This brief instruction for use is intended to walk you through the Digital Treatment Planning and Guided Surgery process utilizing SimPlant. This system has an open architecture. Most implant systems available on the market can be planned with the SimPlant software. SurgiGuides can be Tooth-, Tissue, or Bone-Level. SurgiGuide options include:

- The Classic SurgiGuide consists of a guide for each drill diameter (Fig. 1). They are typically Tooth-Level for partially edentulous cases.
- The Universal SurgiGuide includes one guide. Keys for each diameter drill slide into the sleeve(s) in the Universal SurgiGuide. A Universal SurgiGuide Kit is required.
- Safe SurgiGuides are available that are compatible with Astra Facilitate, Biomet 3i, Straumann Guided, and NobelGuide Surgical Kits

Important: The drill lengths for guided surgery are longer than for standard implant surgery since you are going through a SurgiGuide. The drill depth for each implant will be listed on a Surgical Guideline that comes with your SurgiGuide (Fig. 2). The depth is determined by three numbers- the length of the planned implant + the height of the SurgiGuide sleeve (5mm) + the prolongation area (the distance from the bottom of the sleeve to the top of the implant). The patient's vertical opening should be evaluated to ensure they are a candidate for guided surgery.

A critical step in the SimPlant process is the accurate fabrication of the Scan Appliance (Fig. 3). This appliance, worn by the patient during their CT scan, sets the ideal position of the teeth to be replaced. The teeth to be replaced are processed in a 20% barium sulphate mix. The base is clear acrylic.

Submitting a Digital Rx

Our secure online portal allows you to easily submit your Rx and CT scan files. You can also access all information related to your case, including a viewer version of your digital implant plan, through your online account

- Select "Dentist" under Submit Digital Case on our web site at www.inclusivedental.com (Fig. 4).
- Sign into "My Account" (Fig. 5)
 - a. To set up your online account please call (800) 854-7256.
- Fill out your Digital Rx (Fig. 6) including how you will be sending your CT scan files (Fig. 7)
- Print out your Digital Rx and include it with your impressions and bite registration if you are ordering a scan appliance.



Fig. 1 Universal SurgiGuide with Fixation Screw sleeves and Universal SurgiGuide Kit

	Maxilla	Mandible	Teeth
Implant Label	1		
Planned implant length (mm)	13.0		
Planned patient diameter (mm)			
Use of SurgiGuide in sequential order			
Level drill length (mm)	22.0		
Implant Prolongation (mm)	4.4		
Drill diameters			
SurgiGuide #1	2.00		
SurgiGuide #2	2.25		
SurgiGuide #3	4.50		
Tube inner diameters			
SurgiGuide #1	2.20		
SurgiGuide #2	2.50		
SurgiGuide #3	4.50		

Fig. 2 Surgical Guidelines



Fig. 4 Click on "Submit Digital Case"



Fig. 4 Click on "Submit Digital Case"



Fig. 5 Sign into "My Account"

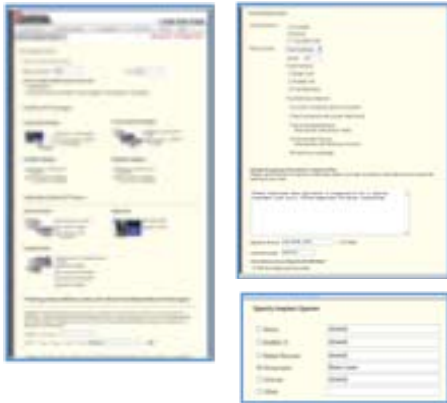


Fig. 6 Fill out Digital Rx

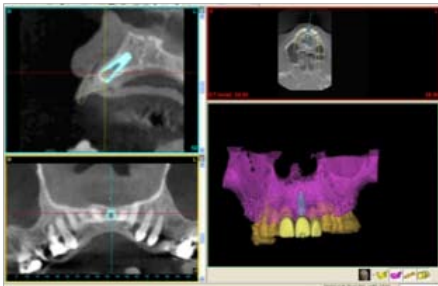


Fig. 10 Trial Denture



Fig. 11 CT Scan

■ First Appointment

- Utilizing a stock tray, take full-arch impressions and a bite registration.
- Print out a copy of your Digital Rx and include it with your case.

■ Second Appointment

– Jaw Relation Records

- Try-in Scan Appliance and Scan Index.

Note: a Scan Index is a bite registration of the Scan Appliance to the opposing dentition.

- Send the patient for their CT scan (Fig. 8). Include a copy of the SimPlant scanning protocol with your radiographic Rx. A copy of the scan protocol is available at the bottom of the SimPlant section of our web site.

Important- Ensure the Scan Appliance is completely seated during the patient scan.

■ Submitting DICOM Folders

- Click on the link that was included on e-mail notification you received after submitting your digital Rx. Upload the folder containing the patient's DICOM files (Fig. 9).
- Click on "Browse" and locate the DICOM folder
- Click "Attach"
- Click "Send"

■ Web-Based Teleconference

Once the draft of your plan is prepared you will be contacted by the Digital Treatment Planning Administrator to arrange a conference to review and finalize your digital plan. If you are part of a surgical-restorative team we encourage all members to take part in the web-based teleconference (Fig. 10).

■ Reviewing and Accepting Digital Plan

All information regarding your case can be accessed through "My Account."

- Sign into "My Account" by clicking on "Dentist" under Submit Digital Case on our web site (www.inclusivedental.com)
- Click on "Open Cases" under "Case Status and Shipping" on the Tool Bar
- Select "Details" for the selected case. Here you can access:
 - a. Your original Digital Rx
 - b. Pathology Report (if one was ordered)
 - c. Plan Viewer- You can download a Viewer version of your plan.
 - d. Print Plan- A pdf of your plan can be printed.
- To accept the plan
 - a. Click on Plan Viewer/Approval
 - b. Check the Accept Box, fill in your electronic signature and license number (Fig. 11).
 - c. Click submit

Note: The SurgiGuide your case will not be ordered until you submit your acceptance

Important: You as the treating clinician are responsible for the plan. Carefully review your plan before you accept it.

■ Third Appointment

- Try-in SurgiGuide to verify fit (*Fig. 12*).

■ Fourth Appointment

- Perform Guided Surgery procedure per SimPlant protocol (*Fig. 13*). Deliver provisional if indicated (*Fig. 14*).

■ Follow-up Appointments

- Schedule follow-up and recall appointments following standard implant protocol. Continue to final restoration when appropriate (*Fig. 15 & 16*).



Fig. 12 Upload and send DICOM folders



Fig. 13 Web-based tele-conference



Fig. 14 Accepting the plan



Fig. 15 Guided Surgery



Fig. 16 Guided Surgery



Lab Fees

Digital Treatment Planning provides total control for implant restoration

■ SIMPLANT# PACKAGES

A SurgiGuide consists of up to three guides per case.

- SIMDTXSG** (Digital Plan, SurgiGuide) **\$750**/pkg.
 Digital Plan..... **\$295** ea.
 SurgiGuide..... **\$540** ea.
- SIMPKG** (Scan Prosthesis, Digital Plan, SurgiGuide) **\$875**/pkg.
 Scan Prosthesis (Partially/Fully Edentulous)..... **\$150/\$225** ea.
 Digital Plan..... **\$295** ea.
 SurgiGuide..... **\$540** ea.

Safe SurgiGuide consists of one guide per case. Safe Surgical Kit is required.

- SSGDTX** (Digital Plan, SAFE SurgiGuide)..... **\$765**/pkg.
 Digital Plan..... **\$295** ea.
 SAFE SurgiGuide..... **\$555** ea.
- SSGPKG** (Scan Prosthesis, Digital Plan, SAFE SurgiGuide) .. **\$890**/pkg.
 Scan Prosthesis (Partially/Fully Edentulous) **\$150/\$225** ea.
 Digital Plan..... **\$295** ea.
 SAFE SurgiGuide..... **\$555** ea.

■ ASTRA FACILITATE# PACKAGES

Facilitate consists of one guide per case. Facilitate Surgical Kit is required.

- FAC1** (Digital Plan, Astra Facilitate SurgiGuide) **\$765**/pkg.
 Digital Plan..... **\$295** ea.
 Astra Facilitate SurgiGuide..... **\$555** ea.
- FAC2** (Scan Prosthesis, Digital Plan, SurgiGuide) **\$890**/pkg.
 Scan Prosthesis (Partially/Fully Edentulous)..... **\$150/\$225** ea.
 Digital Plan..... **\$295** ea.
 Astra Facilitate SurgiGuide..... **\$555** ea.

■ BIOMET 3i# NAVIGATOR# PACKAGES

Navigator consists of one guide per case. Navigator Surgical Kit is required.

- NAV1** (Digital Plan, SurgiGuide) **\$765**/pkg.
 Digital Plan..... **\$295** ea.
 3i Navigator SurgiGuide **\$555** ea.
- NAV2** (Scan Prosthesis, Digital Plan, Navigator SurgiGuide) **\$890**/pkg.
 Scan Prosthesis (Partially/Fully Edentulous) **\$150/\$225** ea.
 Digital Plan..... **\$295** ea.
 3i Navigator SurgiGuide **\$555** ea.

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Quick Reference

	Doctor	Glidewell
1st Appointment	Impression and bite registration Fill-in and submit Digital Rx	Pour and articulate models Fabricate Scan Appliance and Index 5 days
2nd Appointment	Try-in Scan Appliance / Index Send patient for CT scan Upload CT (DICOM) folder	Convert DICOM files in SimPlant software Draft implant plan based on Digital Rx 2 days
Web-based Conference	Review and finalize plan	Post viewer and printable versions of plan
Accept Plan	Accept plan through "My Account"	Order SurgiGuide QC SurgiGuide on model 5 to 10 days Fabricate master cast and provisional restoration (if prescribed)
3rd Appointment	Try-in SurgiGuide	
4th Appointment	Perform Guided Surgery procedure per SimPlant protocol Deliver immediate provisional if indicated	
Follow-up & Recall Appointments	Schedule follow-up appointment per standard implant protocol. Continue to final restoration when indicated	



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www.glidewell dental.com