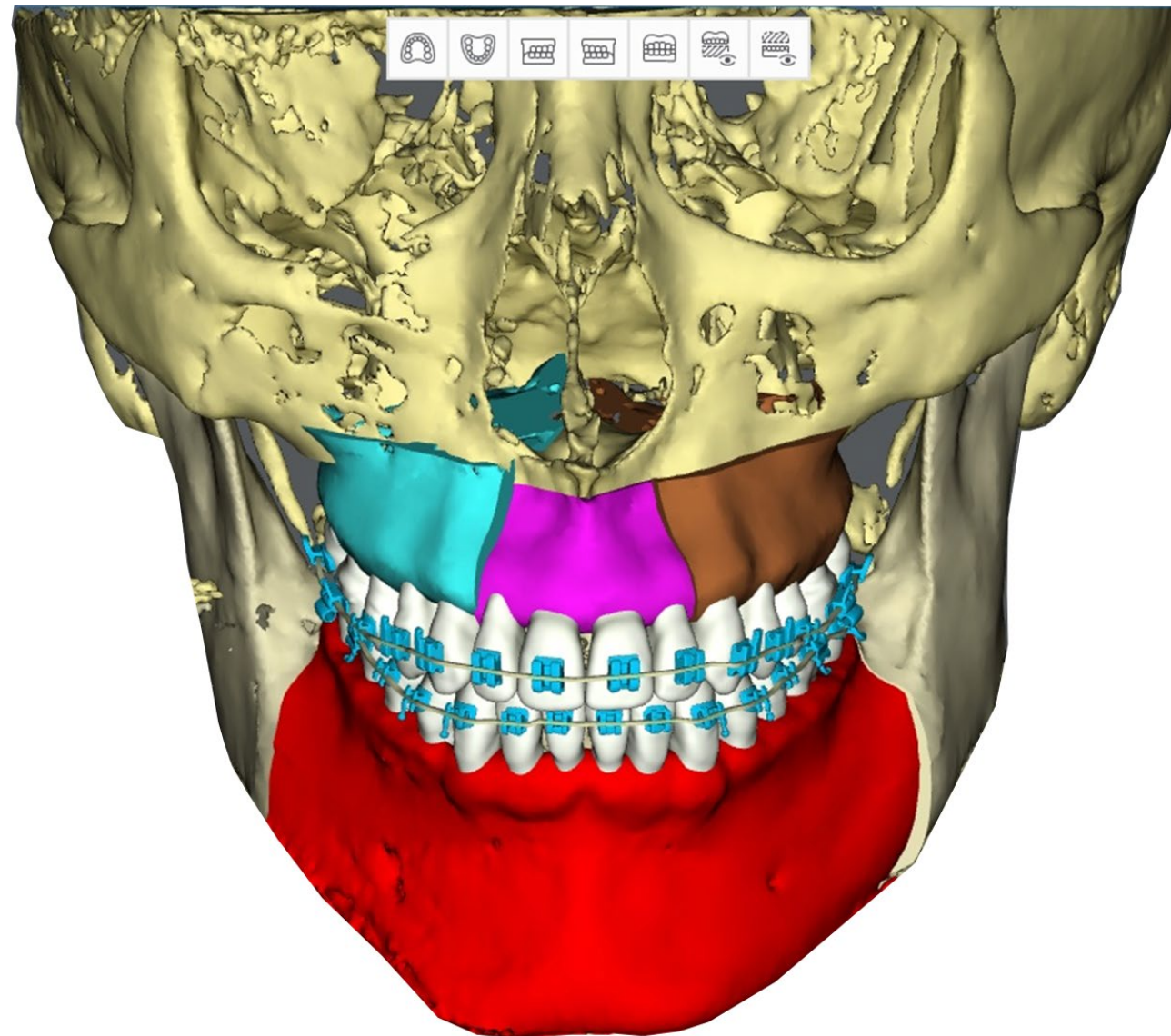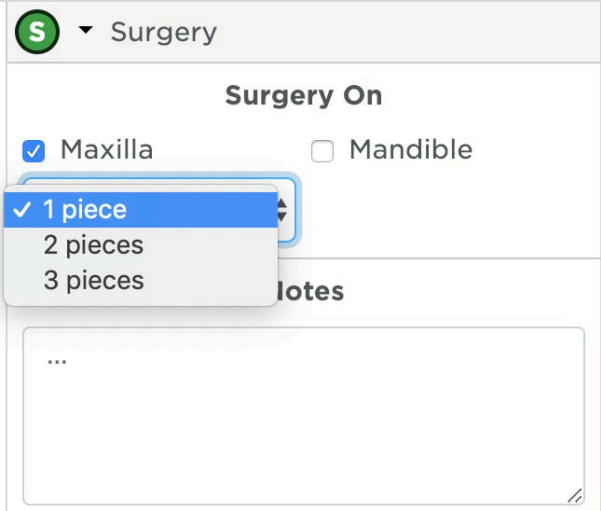# SureSmile® Advanced
Surgical Reference Guide

Surgical Setup Recommendations

- For surgical cases, SureSmile® recommends the Extended case type for the following scenarios:
  - Patient will be rescanned
  - More than one plan needed
  - Treatment will be finished using SureSmile® Aligner design
    (Note: Patient must have a therapeutic model. Aligner design using a diagnostic model is not supported for SureSmile® surgical cases.)

- Extended case type is an additional fee on top of normal case fee
  (Please contact your SureSmile® Representative for pricing)

- Extended case type includes:
  - 5 therapeutic models
  - 5 setups
  - Unlimited wires

Surgery Tab Activation

Indicate Maxilla, Mandible, or Both Arches		
Maxillary Mandibular	Advancement Setback Midline Correction Asym. Advancement Asym. Set-back	= move forward = move backward = rotation/translation = forward + rotation movement = backward + rotation movement
Maxillary Impaction	1-Piece	Maxillary anterior impaction Maxillary posterior impaction Maxillary impaction (whole arch)
	3-Piece	Differential impaction of maxillary anterior and posterior segments
Maxillary Mandibular Expansion	2-Piece	Maxillary expansion Mandibular expansion
	3-Piece	Maxillary expansion
Maxillary Mandibular Cant Correction	2-Piece	Maxillary cant correction Mandibular cant correction
	3-Piece	Maxillary cant correction

Surgery Tab

After you flag the case as surgical by checking Upper or Lower (or both) on the MACROS form, the surgery tab is enabled.

Surgical Segments default to one segment. For multi-piece surgery, indicate the number of surgical segments for the upper and/or lower.

Surgery Tab

A new tab is displayed for each new segment you create.

Click and drag the surgical cut indicators on the diagram to mark the cuts.

Post-Surgical Setup Prescriptions

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3-Piece Maxillary, 1-Piece Mandibular Surgery

The color-coding for each tab matches each segment on the model.

1-Piece Surgery: Mandibular Setback

The jaw piece movement values are displayed here.

1-Piece Surgery: Mandibular Advancement

Select the *Use Condyle Axis* check box to simulate the natural movement of the lower jaw rotating around the condyle axis.

After the *Use Condyle Axis* option is checked, use the g(+)/o(-) rotation option to apply the correction.
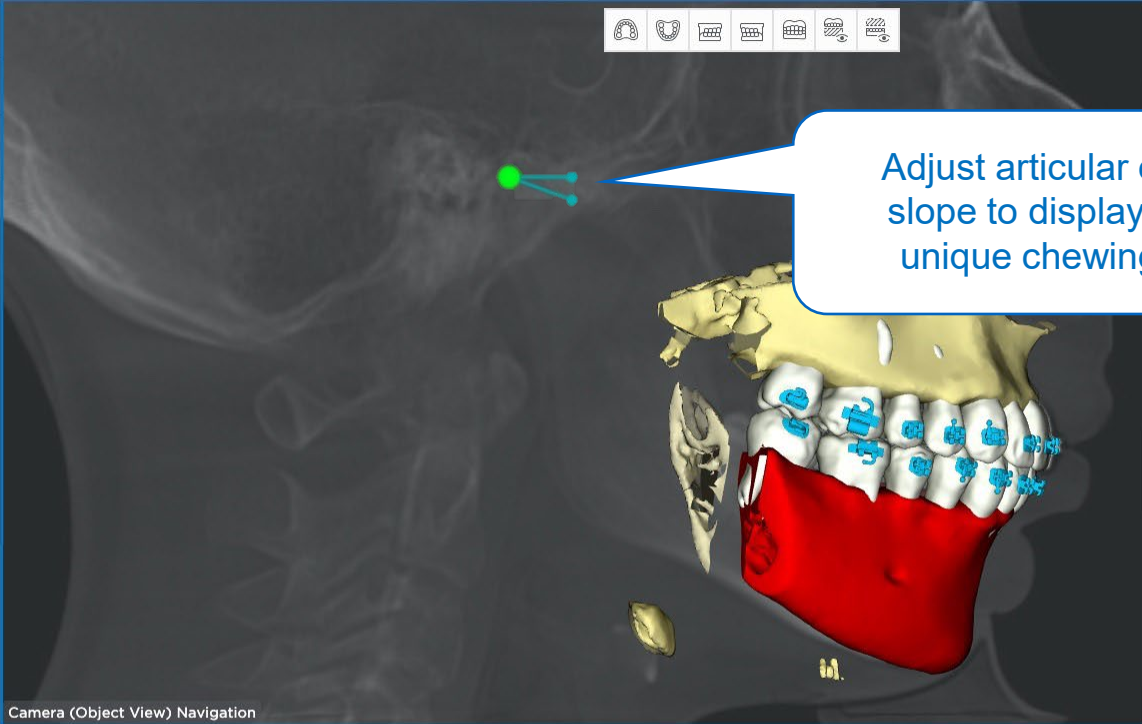
Articular Eminence

Adjust articular eminence slope to display patient's unique chewing motion

1-Piece Le Fort I Anterior Impaction

1-Piece Le Fort I Posterior Impaction

2-Piece Le Fort I, Maxillary Expansion and Advancement

If you are planning the segmental Le Fort I surgery for expansion and advancement of the maxilla, move a single segment first to simulate advancement.

2-Piece Le Fort I, Maxillary Expansion and Advancement

Once the advancement has been applied, change the *Upper Surgical Segments* to '2' then simulate expansion. The new segments will retain the same advancement as the original segment.

3-Piece Le Fort I, Posterior Impaction

First apply the posterior maxillary impaction as one segment to auto-rotate the mandible and close the anterior open bite.

3-Piece Le Fort I, Posterior Expansion and Space Closure
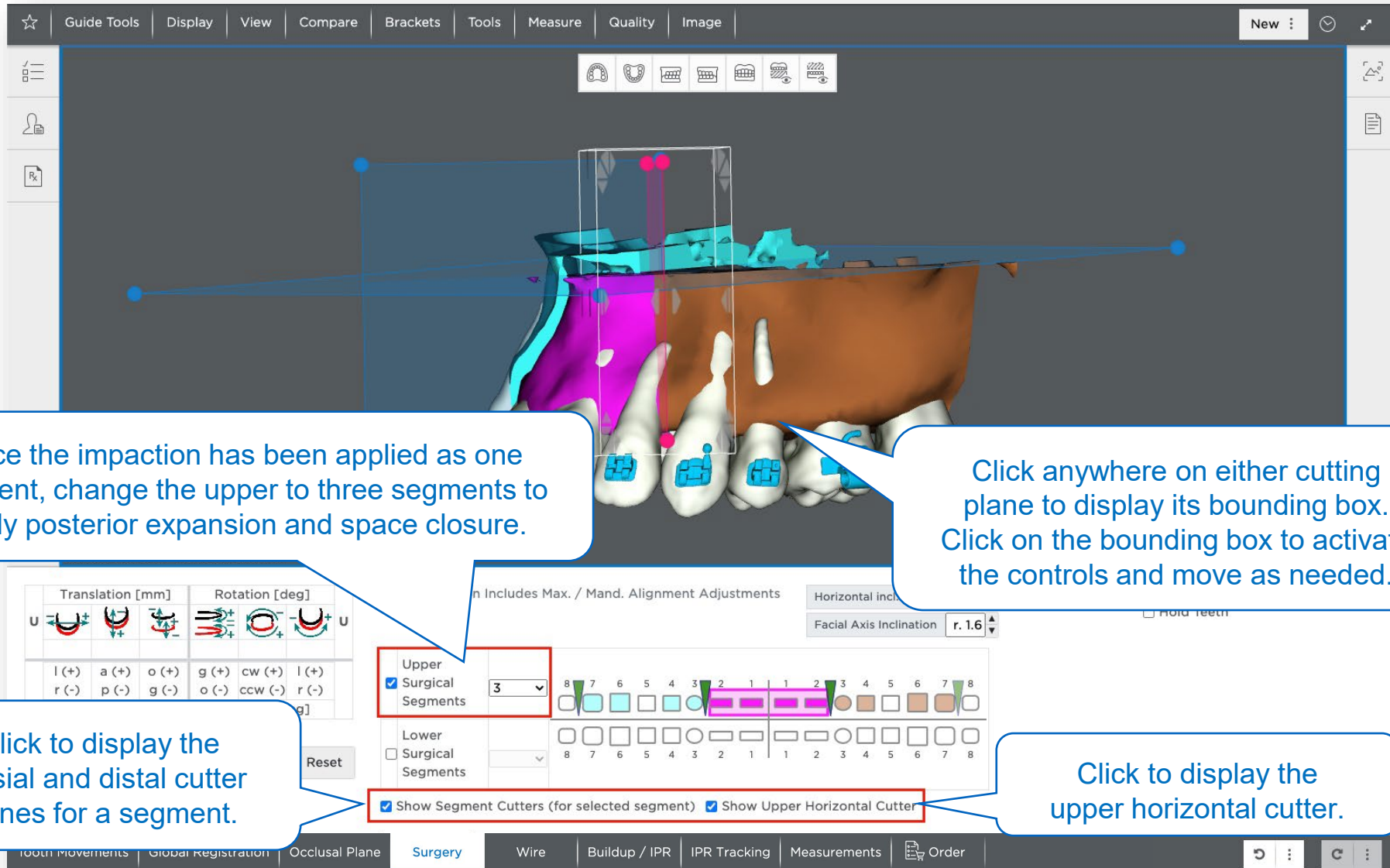
Once the impaction has been applied as one segment, change the upper to three segments to apply posterior expansion and space closure.

Click anywhere on either cutting plane to display its bounding box. Click on the bounding box to activate the controls and move as needed.

Click to display the mesial and distal cutter planes for a segment.

Click to display the upper horizontal cutter.

3-Piece Le Fort I, Posterior Expansion and Space Closure

Pre-Surgical Setup Prescriptions

Review/Approve the Post-Surgical Setup

Choose one of the following options:

Begin Pre-Surgical Setup Prescription Next

☐ Recommended if you are new to surgical treatment planning in SureSmile®. This option allows you to order a pre-surgery plan so that the Digital Lab technician can make needed adjustments for root divergence and add space for the surgical cuts.

Begin Pre-Surgical Setup Simulation Next

☐ Recommended if you are experienced with surgical treatment planning in SureSmile® and do not need Digital Lab assistance. If you are able to make needed adjustments for root divergence and to add space where the surgical cuts are to be placed, you can order pre-surgery wires directly from the pre-surgery simulation.

Begin Post-Surgical Wire Order Next

☐ NOT recommended for multi-piece surgeries. However, in single-piece surgical cases, when a pre-surgery plan is not needed, you can order wires.

After choosing an option, click **Approve** to complete the review and proceed to the next step.

Pre-Surgical Setup Simulation

☐ Pre-surgical simulation includes changes needed to occur before surgery: space for osteotomy cuts, additional angulation, or rotation to the teeth adjacent to the cut.
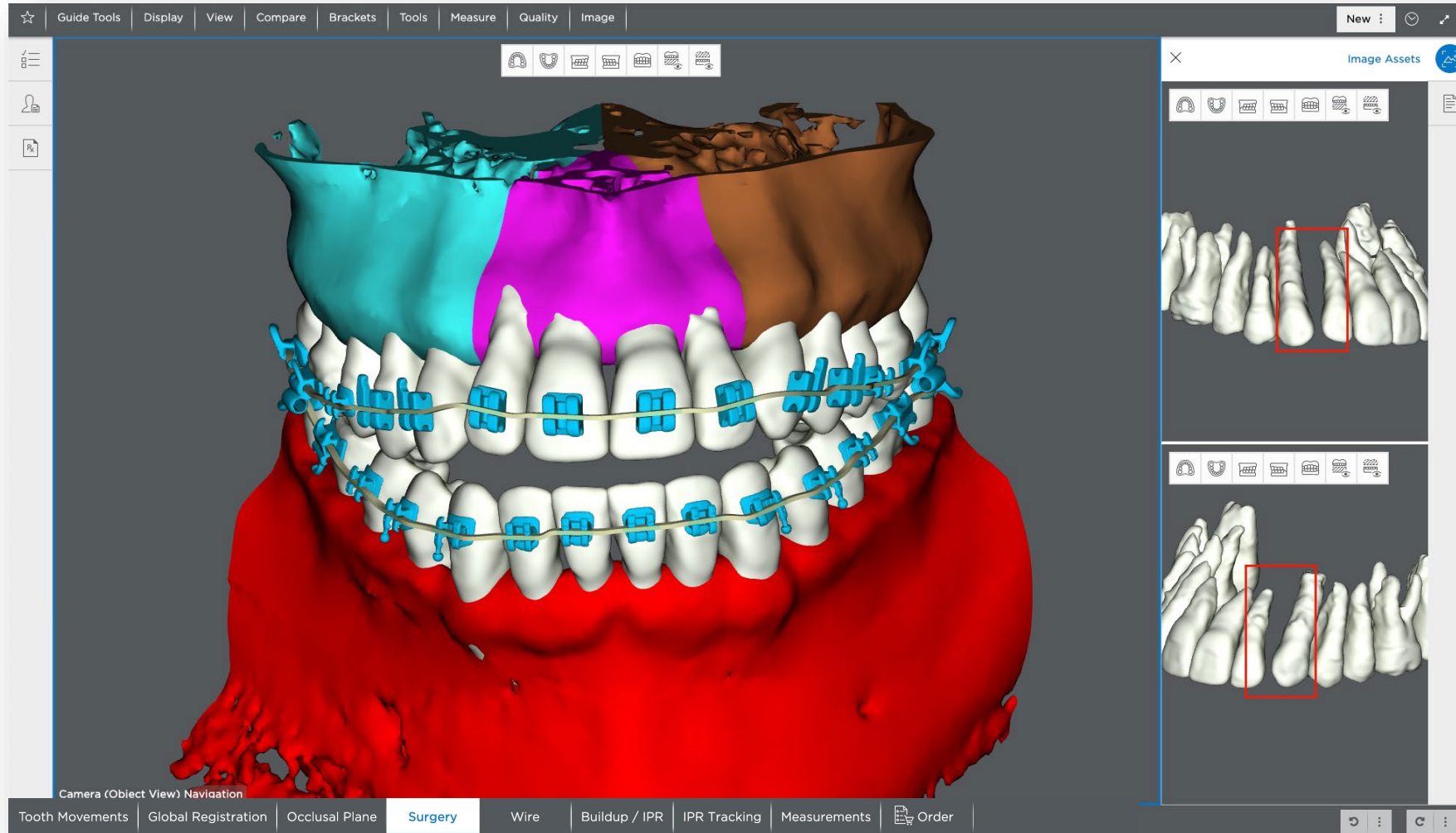
Pre-Surgical Simulation

Check the *Show Post-Surgical* check box to compare the planned pre-surgical dental movements to the post-surgical setup.

Pre-Surgical Wire Order

From the Order tab, select *New Pre-Surgical Wire*.

Surgical Wire Orders

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Pre-Surgical Wire Order

Click Submit to order the Pre-Surgical wire.

Post-Surgical Wire Order

To order a Post-Surgery wire, select *Wire* from the *New* menu.

For the Copy Overrides options, select *-no overrides-,* as you do not want to copy a Pre-Surgery wire for a Post-Surgery wire.

Click *Apply Wire Sequence* to begin a sequence or click *Continue…* for a single wire order.

Post-Surgical Wire Order

Click Submit to order the Post-Surgical wire.

Learning Resources

☐ Search the Help Center in SureSmile® for:

   ☐ Online help topics with step-by-step instructions

   ☐ Downloads including forms and reference documents

   ☐ Video demonstrations of software features

To open the Help Center, click the question mark ⍰ button and and select Help Center.