suresmile

Desktop Reference Guide

Doctor Level 2
## TABLE OF CONTENTS

<table>
<thead>
<tr>
<th>suresmile Surgical Setup</th>
<th>Visualizing Restorations</th>
</tr>
</thead>
<tbody>
<tr>
<td>Surgery Tab Activation</td>
<td>Buildup/IPR Tab</td>
</tr>
<tr>
<td></td>
<td>IPR</td>
</tr>
<tr>
<td>Surgery Tab</td>
<td>Buildups</td>
</tr>
<tr>
<td></td>
<td>Vertical Offset</td>
</tr>
<tr>
<td>Post-Surgery Setup Prescriptions</td>
<td>Labial Offset/Lingual Offset</td>
</tr>
<tr>
<td>1-Piece Surgery</td>
<td>Replace a Tooth</td>
</tr>
<tr>
<td>2-Piece Surgery</td>
<td></td>
</tr>
<tr>
<td>3-Piece Surgery</td>
<td></td>
</tr>
<tr>
<td>Pre-Surgery Setup Prescriptions</td>
<td></td>
</tr>
<tr>
<td>Surgical Wire Orders</td>
<td></td>
</tr>
</tbody>
</table>
Surgical Setup

Surgery Tab Activation
## Special Instructions

<table>
<thead>
<tr>
<th>Indicate Maxilla, Mandible, or Both Arches</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Maxillary</strong></td>
</tr>
<tr>
<td><strong>Advancement</strong></td>
</tr>
<tr>
<td><strong>= move forward</strong></td>
</tr>
</tbody>
</table>
1-Piece Maxillary 1-Piece Mandibular Surgery

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.

2-Piece Maxillary 1-Piece Mandibular Surgery

For multi-piece surgery, indicate the number of surgical segments for the upper and/or lower.
3-Piece Maxillary 1-Piece Mandibular Surgery

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-Surgery Setup Prescriptions
3-Piece Maxillary 1-Piece Mandibular Surgery

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

1-Piece Surgery
Mandibular Setback

The jaw piece movement values are displayed here.

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

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

Mandibular Advancement

The jaw piece movement values are displayed here.
Articular Eminence

Adjust articular eminence slope to display patient’s unique chewing motion.

1-Piece Le Fort I Anterior Impaction

Select the Show/Hide Horizontal and Vertical Facial Axis icon.

Skeletal horizontal indicator is parallel to skeleton horizontal plane.

Uncheck the Malocclusion includes surgical adjustments option to compare the planned surgical movements to initial therapeutic model position.
1-Piece Le Fort I Posterior Impaction

2-Piece Surgery
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.

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 Surgery

3-Piece Le Fort I: Posterior Impaction

First apply the posterior maxillary impaction as one segment to autorotate 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 its controls and move as needed.

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

Click to display the upper horizontal cutter.

Retraction of the maxillary anterior region to close the extraction space and reduce the overjet.

Expansion of the maxillary posterior region to correct the crossbite.
Pre-Surgery Setup Prescriptions

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 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-Surgery 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.

Check the Show Post-Surgical check box to compare the planned pre-surgical dental movements to the post-surgical setup.
From the Order tab, select New Pre-Surgical Wire.

Surgical Wire Orders
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.
Post-Surgery Wire Order

Click Submit to order the Post-Surgery wire.

Visualizing Restorations
Buildup/IPR Tab

The Buildup/IPR tab contains restoration and IPR features. This tab is available in setups and simulations.

A tooth chart on the tab has rows for each of the restorative functions.

The Intersection (-)/Gap (+) row shows the mesial/distal overlap or gap between teeth. The amount of gap is indicated by a positive number.
The Intersection (-)/Gap (+) row shows the mesial/distal overlap or gap between teeth. The amount of overlap is indicated by a negative number.

The amount of gap and overlap influences the Arch Length Discrepancy.
Simulations to Change Tooth Shapes

- Simulations to change tooth shapes:
  - Restorations including implants, crowns, and buildups
  - Orthodontic procedures including polishing, equilibration and IPR
- You can type in your own adjustments or use automatic features to calculate tooth shapes to simulate restorations and orthodontic procedures.
  - Changes to each tooth model are made in increments of 0.1 mm

Tip: Turn on the Colorize Buildups/Cuts tool as an important reminder that restoration features are for visualization purposes only and cannot accurately reflect the restorations to be performed by the general dentist.
Mesial/Distal Overlap - Clipping Plane

Use the Clipping Plane to see the mesial/distal overlap or gap between teeth indicated in the Intersection (-)/Gap (+) row.

The amount of overlap is indicated by a negative number.

Simulating IPR

Use the Auto m/d Size feature to calculate the IPR needed, or enter values in the IPR (-)/Buildup (+) row.
Simulating IPR

IPR and other reductions are depicted in red when you select the Colorize Buildups/Cuts icon.

IPR scales a tooth model mesially or distally according to the values you enter.

When IPR is applied to the mesial/distal overlap, the Mesial Gap/IPR values under the Displacements tabs and the Arch Length Discrepancy values are no longer present.
Buildups

Simulating Buildups

The intersection (-)/gap (+) row shows the mesial/distal overlap or gap between teeth. The amount of gap is indicated by a positive number.
Simulating Buildups

When you select the Colorize Buildups/Cuts tool, the buildup is depicted in blue.

Using the Auto m/d Size feature automatically reshapes the selected tooth to close gaps with adjacent teeth.

Applying buildup transfers the gap values from the Intersection (-)/Gap (+) row to the IPR (-)/Buildup (+) row.
When the **Colorize Buildups/Cuts** icon is NOT selected, the blue coloring is not displayed and the buildup looks like normal tooth anatomy.

Note: Turn on the **Colorize Buildups/Cuts** tool as an important reminder that restoration features are for visualization purposes only and cannot accurately reflect the restorations to be performed by the general dentist.

When the **Show Original Anatomy** icon is selected, the buildup is hidden and only original tooth anatomy is displayed.
Simulating Buildups

When buildup is applied to the IPR (-)/Buildup (+) row in the Buildup/IPR tab, the Gap (+)/Intersection (-) values in the Displacements tab and the Arch Length Discrepancy values in the Measurements tab are no longer present.

Vertical Offset
**Vertical Offset**

When entering values manually in the Vertical Offset row you do not have to adjust the occlusal plane. When using the Auto Vertical Buildup feature adjust the occlusal plane to indicate the amount of the vertical offset needed.

Vertical Offset values indicate the amount of reduction or buildup in millimeters for each tooth as measured from the Occlusal Plane.

Turn on the Occlusal Plane here.

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**Auto Vertical Buildup**

When you select a checkbox in the Auto Vertical Buildup row, this feature automatically levels the tooth to the Occlusal Plane, building up or reducing the tooth as necessary.

A positive number indicates the amount of vertical buildup.
Auto Vertical Reduction

A negative number indicates the amount of vertical reduction.

Labial Offset/Lingual Offset
Labial Offset

The amount of buildup anticipated (e.g., for veneers) is denoted by a positive number in the Labial Offset row. The buildup or reduction is calculated from the point of maximum buccolingual convexity of the tooth, and then tapers gradually to the gingival and incisal edges.

Lingual Offset

The amount of reduction anticipated (e.g., for polishing) is denoted by a negative number in the Lingual Offset row. The buildup or reduction is calculated from the point of maximum buccolingual convexity of the tooth, and then tapers gradually to the gingival and incisal edges.
Replace a Tooth

UL2 Replacement

To simulate a replacement tooth, click on the tooth in the Change Model row and choose Select Template Tooth from the menu.
UL2 Replacement

Select the Real Model option to create a tooth from one of the modeled teeth.

The UL2 has been replaced with a template matching the UR2.

Changing a tooth model is indicated in yellow on the model.

Changing a tooth model is also indicated in blue on the Change Model row.
Select the Template option to create a standard tooth template from one of the modeled teeth.

The UL2 has been replaced with a standard template tooth.

Changing a tooth model is indicated in yellow.

Changing a tooth model is also indicated in blue on the Change Model row.
Show Original Anatomy

When the Show Original Anatomy icon is selected, the simulated teeth are hidden and only original tooth anatomy is displayed.

Visualizing Restorations

UL2 replacement, UL1-UR2 labial buildup and lower 2-2 IPR applied, frontal view.
# OraMetrix

OraMetrix has its headquarters in Richardson, Texas, with offices in Berlin, Germany and Chatswood, Australia. For general information about OraMetrix, visit the OraMetrix website at www.orametrix.com. For SureSmile customer support, supplies, or other questions, e-mail customer support at customerscare@suresmile.com or use the following table to call SureSmile customer care.

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<td>Australia</td>
<td>1800 976 453</td>
<td>Monday-Friday: 9am-5pm</td>
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<tr>
<td>Austria</td>
<td>+43-7201155030</td>
<td>Monday-Friday: 9am-17:00</td>
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<tr>
<td>Belgium, Denmark, France,</td>
<td>+800 0613 5555</td>
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<td>Romania</td>
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<td>Switzerland</td>
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<td>Monday-Friday: 9am-17:00</td>
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<tr>
<td>United Arab Emirates</td>
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<td>Monday-Friday: 4am-1pm &amp; 6pm - midnight*</td>
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<tr>
<td>United States &amp; Canada</td>
<td>1.888.672.6387</td>
<td>Monday-Friday: 7am-7pm</td>
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<tr>
<td>All other countries</td>
<td>+1.972.728.5900</td>
<td>Monday-Friday: 7am-7pm</td>
</tr>
</tbody>
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*Due to Daylight Savings Time in the U.S., phone support will be available 1 hour earlier from the second Sunday in March to the first Sunday in November.