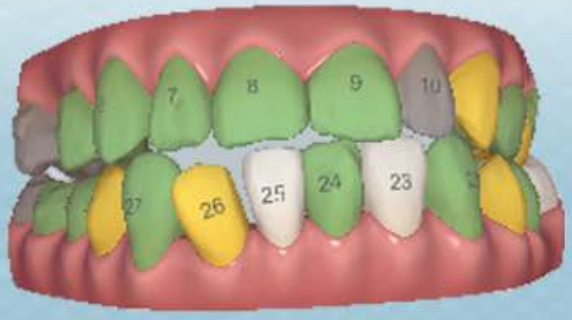




Invisalign® Outcome Simulator 4.2

Powered by ClinCheck® Software

User Guide

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Invisalign Outcome Simulator 4.2 User Guide, English language version.
Updated May 2019.

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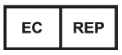
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CONTENTS

WHAT IS INVISALIGN OUTCOME SIMULATOR? 2
Intended Use 2
How this Document Is Organized 2

SECTION I. MODEL CREATION 4

1. Starting a New Scan 4
1.1 New Patient 4
1.2 Existing Patient 4

2. Initiating the Prescription 5

3. Performing the Scan 6

4. Correcting Axis Lines and Tooth Numbers 6
4.1 Adjusting Incorrect Axis Lines 6
4.2 Adding Axis Lines 7
4.3 Deleting Axis Lines 7
4.4 Updating Tooth Numbers 7
4.5 Undo/Redo/Reset Buttons 8

5. Creating the Simulated Outcome 8

6. Launching the Simulator 9
6.1 From MyAligntech 9
6.2 From the Patient List 9
6.1 From the Orders List 10

SECTION II. THE SIMULATOR USER INTERFACE 10

7. The Main Menu 11
7.1 File Operations 11
7.2 View Menu 12
7.3 Help Functions 13

8. Toolbar Overview 14

9. File Operations Bar 15
9.1 OPEN and SAVE Buttons 15

9.2 SHARE Button 15

10. Undo/Redo Buttons 15

11. 3D Model Bar 15

11.1 NUM Tool 16
11.2 IPR Tool 16
11.3 DFCLTY Tool 17
11.4 OCCLUS Tool 18

12. Primary Views Bar 19

13. Translate/Rotate Toggle 19

14. Zoom Slider 21

SECTION III. SIMULATED TREATMENT PLAN 21

15. Setting Treatment Goals 22

15.1 Selecting Tooth Status 23
15.2 Changing Simulation Settings 23

16. Starting the Adjustment Process 24

17. Changing IPR Values 25

17.1 Adding IPR and Spacing 25
17.2 Removing IPR and Spaces 25

18. Changing Tooth Positions 26

18.1 Changing a Single Tooth 26
18.2 Working with Multiple Teeth 27

19. Changing Arch Positions 27

20. Sharing Simulated Outcomes with Patients 28

20.1 Viewing the Shared Treatment Simulation 29
20.2 Deleting the Simulation 30

21. Sending the Simulation to Align 30

SECTION IV. PROGRESS ASSESSMENT 32

22. Launching the Simulator in Assessment Mode 32

22.1 From MyAligntech 33

22.2 From the Patient List 33
22.3 From the Orders List 34
23. Adjusting Axes 35
24. Setting Up the Assessment 36
24.1 Identifying the Patient 36
24.2 Choosing the Treatment Plan (Optional) 37
24.3 Choosing the Current Treatment Stage 37
25. The Progress Assessment Screen 38
25.1 The Assessment Toolbar 39
25.2 SINGLE, ARCHES, and DUAL Tools 39
25.3 REPORT Tool 40
25.4 ASSESS Tool 41
25.5 SUPER Tool 41
25.6 LEGEND Tool 42
25.7 Stage Controls 42
26. The Report Panel 43
SECTION V. CONFIGURATION 44
27. Hardware Requirements 44
28. Anti-Virus Software Requirements 44
29. Graphics Driver Requirements 44
30. Data Security 44
31. Symbol Glossary 45

WHAT IS INVISALIGN OUTCOME SIMULATOR?

The Invisalign® Outcome Simulator software is a proprietary 3D computer application for creating, depicting, viewing and editing a simulation of a potential orthodontic treatment plan, including a virtual representation of the patient's initial teeth position and the estimated final position in a virtual, 3D model.

Note: All names used in this document are fictitious. Any similarity to an actual person is coincidental.

Intended Use

The Invisalign Outcome Simulator software is designed to be available on the treating doctors' computer or iTero® scanner. The software provides a computerized approximation of possible teeth position, which can be achieved after Invisalign treatment.

The simulated outcome includes the 3D model, options to adjust it using 3D controls, and Interproximal Reduction (IPR) if needed. The doctor is requested to thoroughly review the simulated outcome, and may make changes or modifications prior to sharing it with the patient or submitting the simulated outcome to be used as the desired result in treatment plan creation.

The doctor's submission of the simulated outcome from the Invisalign Outcome Simulator software may be used as an initiation of a prescription for the Invisalign System and constitutes authorization for Align to create an Invisalign System treatment plan using the information in the simulated outcome.

How this Document Is Organized

Section I, Model Creation, explains the process from scanning the patient's teeth using iTero scanners and adjusting axis lines and tooth numbers to creating the 3D model.

Section II, The Simulator User Interface, explains the use of the menus, tools, and other controls in the Invisalign Outcome Simulator software that are available to the practitioner for examining the 3D model.

Section III, Simulated Treatment Plan, describes the various options that the practitioner can use to change IPR values, modify final tooth and arch positions, set treatment goals, and send the simulated outcome to Align to start the process of creating an Invisalign treatment plan.

Section IV, Progress Assessment, explains how the practitioner can use iTero scanners to capture information about the patient's current dentition and then use the Invisalign Outcome Simulator software to compare the current dentition against the Invisalign treatment plan.

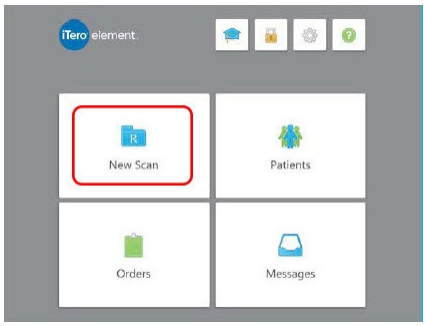
Section V, Configuration, presents important information about supported operating systems, minimum hardware requirements, security, graphics driver requirements, and antivirus recommendations.

SECTION I. MODEL CREATION

1. Starting a New Scan

You can start a new scan from the Home page in one of two ways, depending on whether you are working with a new or existing patient.

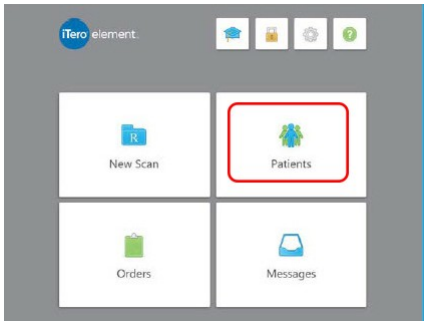
1.1 New Patient



- Click the New Scan button as shown at left.

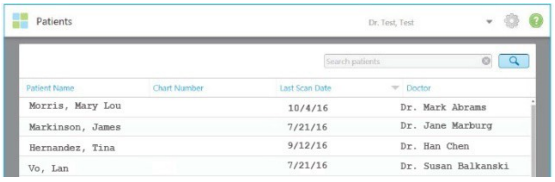
The New Scan screen appears. Go to “Completing the Prescription.”

1.2 Existing Patient



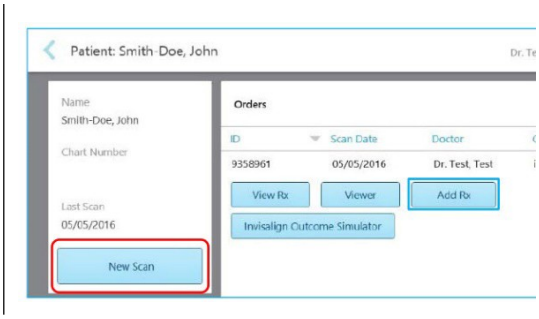
- Click the Patients button as shown at left.

The Patients list appears as shown below.



- Choose the patient from the list. You can search by patient or chart number.

The patient’s individual record appears as shown below.



- From the patient's individual record, choose New Scan as shown below.

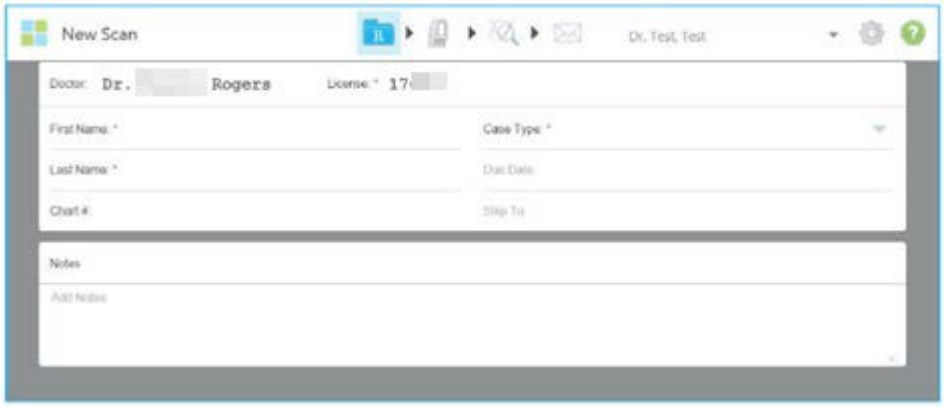
The New Scan screen appears as shown in the next chapter.

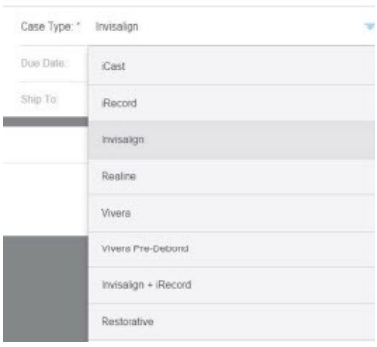
2. Initiating the Prescription



- Click the New Scan button.

The New Scan screen appears as shown below.





- Add the patient information. Sections marked with a red asterisk (*) are required.
- For the Case Type field, choose Invisalign from the dropdown menu shown at left.

3. Performing the Scan

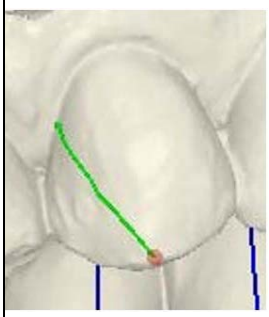
Once you have initiated the prescription, you can perform the scan. The scanning process is described in detail in the “iTero Element Intraoral Scanner Orthodontic Training Guidebook.”

Once the scan is completed, the 3D model is automatically created. The on-screen Processing bar allows you to track the progress of model creation.

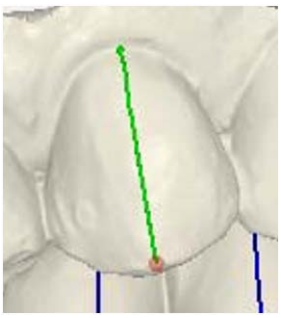
4. Correcting Axis Lines and Tooth Numbers

You can perform several actions to make the 3D model more closely conform to the patient’s actual dentition.

4.1 Adjusting Incorrect Axis Lines



Before

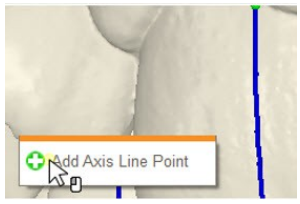


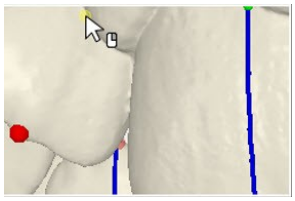
After

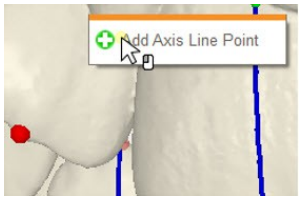
- To adjust an incorrect axis line, click on the incisal or gingival dot and drag to the correct position.

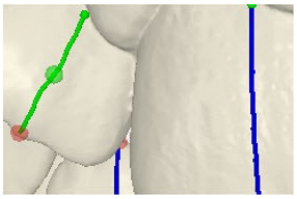
The figures at left show before and after images of axis line correction.

4.2 Adding Axis Lines







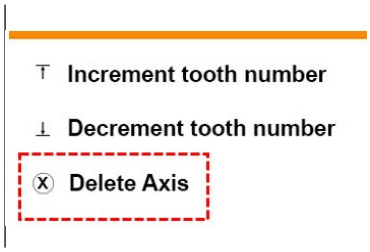


An axis line is required for each tooth that you want to include in the simulation. If an axis line is missing, you can add it using this procedure:

- Right-click or tap on the point where the axis line should start: incisal edge, cusp tip or top of molar groove. The Add Axis Line Point context menu item appears as shown at left.
- Click on the context menu item to add the point. The first point appears as a red dot as shown.

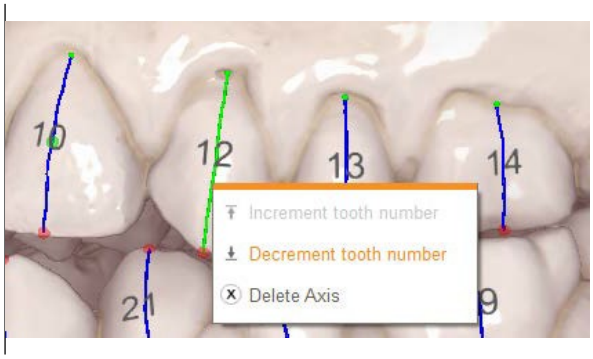
Repeat the procedure for the end point of the axis line. The completed line appears in green as shown.

4.3 Deleting Axis Lines



- To delete an axis line, click or tap on an axis. The pop-up menu appears as shown at left.
- Click on Delete Axis.

4.4 Updating Tooth Numbers



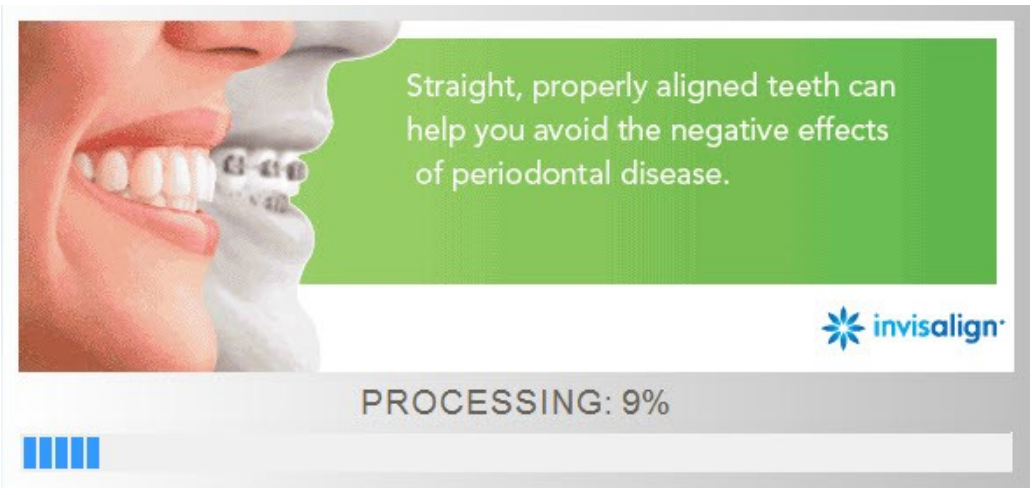
- To update a tooth number, click or tap on an axis. The pop-up menu appears as shown at left.
- Click on Increment or Decrement until the tooth number is correct.

4.5 Undo/Redo/Reset Buttons

UNDO REDO RESET	These buttons allow you to easily correct mistakes and reverse actions that you have performed as you work with the axis lines. • UNDO reverses the last action performed. • REDO reverses the last UNDO action. • RESET reverses all actions taken and returns the model to the original position.

5. Creating the Simulated Outcome

CREATE SIMULATION	When you have made all the adjustments to the 3D model, you are ready to create the simulated outcome. • Click the **CREATE SIMULATION** button. The system displays a series of processing messages similar to the one shown below. • When the simulation processing is complete, the system displays the current dentition on the left and the simulated outcome on the right, as shown in Section II, The Simulator User Interface.



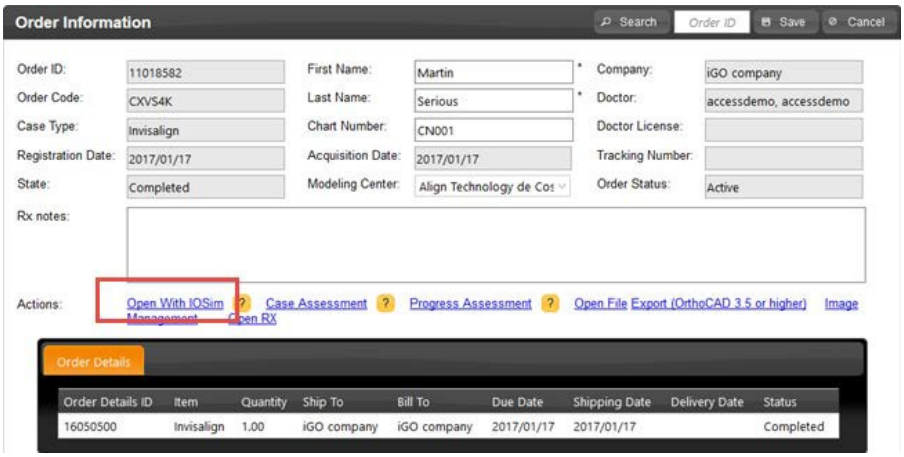
6. Launching the Simulator

When the patient scanning is complete, the system prompts you: “Do you want to run Invisalign Outcome Simulator?” Choose “Yes” to launch the simulator.

You can also launch the simulator from the MyAligntech site, the patient list, and the orders list as described below.

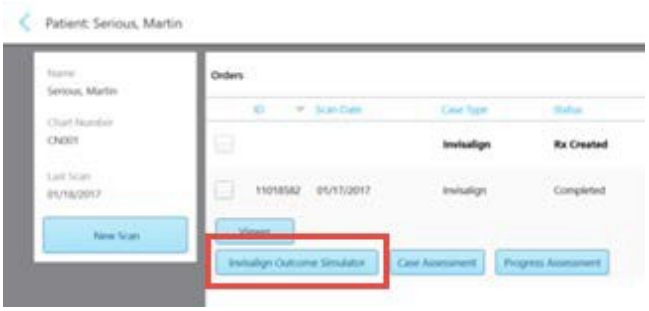
6.1 From MyAligntech

Click the Open With IOSim field highlighted in the screen shot below.



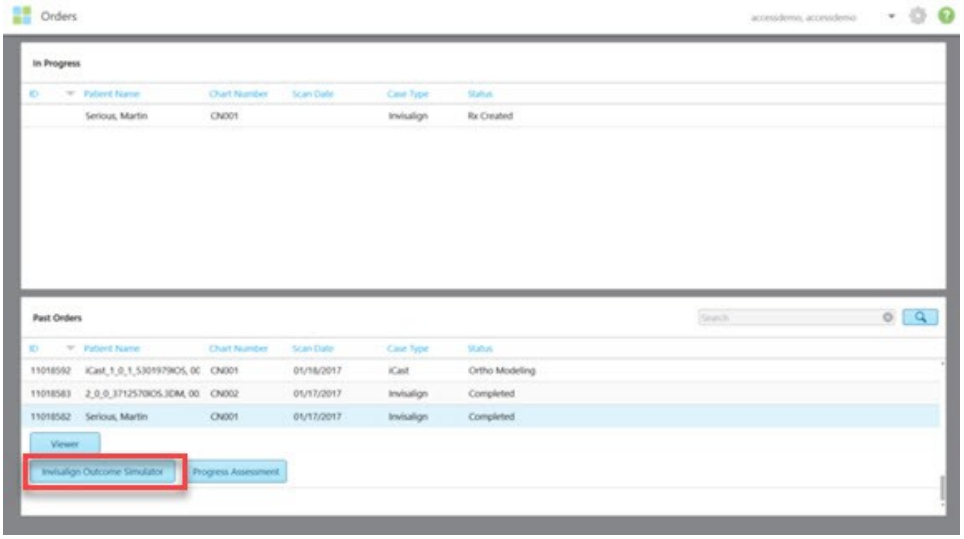
6.2 From the Patient List

Click the Invisalign Outcome Simulator button highlighted in the screen shot below.



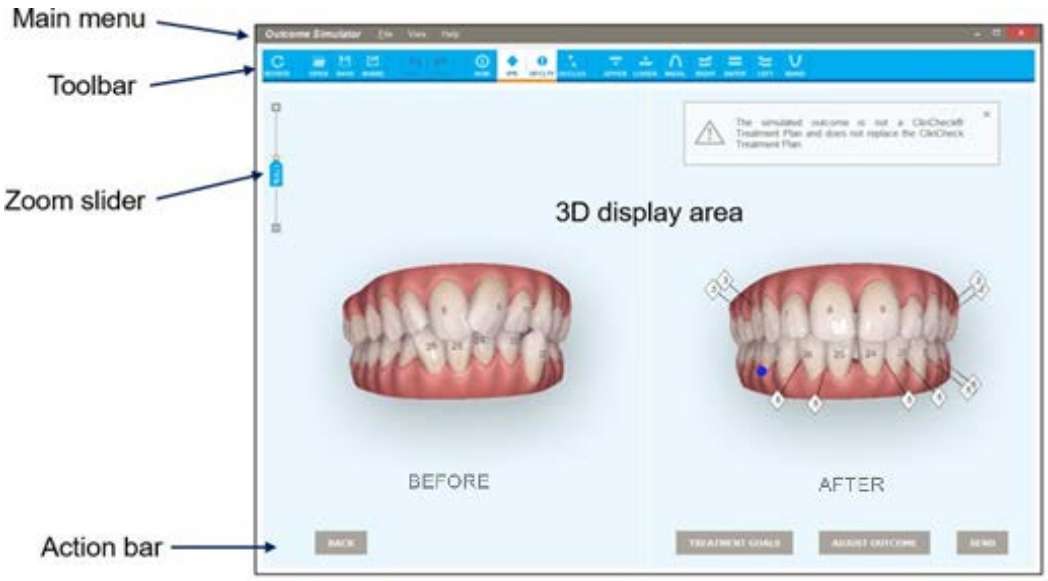
6.1 From the Orders List

Click the Invisalign Outcome Simulator button highlighted in the screen shot below.



SECTION II. THE SIMULATOR USER INTERFACE

This section describes the organization of the buttons, menus, and windows that allow you to interact with Invisalign Outcome Simulator software. This section is intended both to familiarize new users with the user interface of the Invisalign Outcome Simulator software and to serve as a reference guide for experienced users.



7. The Main Menu

The Invisalign Outcome Simulator software Main menu allows you to open and save simulated outcomes, set display parameters, and exit the Invisalign Outcome Simulator program. Each menu is described in more detail below. Note that the Main menu is not available when the Invisalign Outcome Simulator program is launched on the iTero Element scanner.

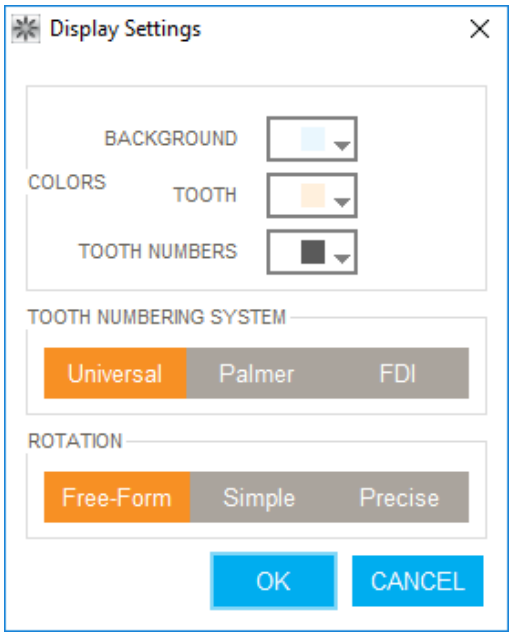
7.1 File Operations



The File submenu enables you to perform the following tasks by clicking the item or using the keyboard shortcut, if any, shown in parentheses.

- *Open* displays the standard Windows Open dialog box, which allows you to select a simulated outcome (Ctrl-O). You can also open files using the Open button on the Toolbar, see page 14.
- *Save* (Ctrl-S) opens the standard Windows Save dialog box, which allows you to name the simulated outcome and save it to your chosen file location. You can also save files using the Save button on the Toolbar, see page 14.
- *Recent Items* allows you to quickly open a simulated outcome that you recently accessed. Click on or mouse over *Recent Items* to see the available simulations, then click on the name to open.
- *Display Settings* opens the Display Settings dialog box, described below.
- *Exit* closes the Invisalign Outcome Simulator software.

Display Settings



The Display Settings dialog box allows you to customize the following parameters:

COLORS

- *Background:* Choose from the colors palette or create a custom color.
- *Tooth:* Choose Light, Medium (default) or Dark.
- *Tooth Numbers:* Choose from the colors palette or create a custom color.

TOOTH NUMBERING SYSTEM

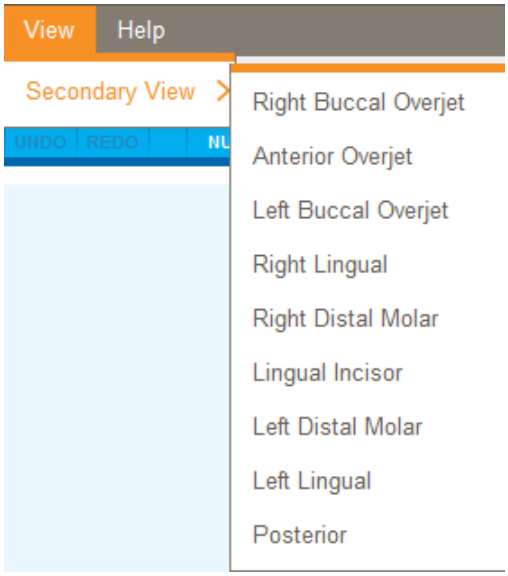
- Choose Universal (default), Palmer or FDI.

ROTATION

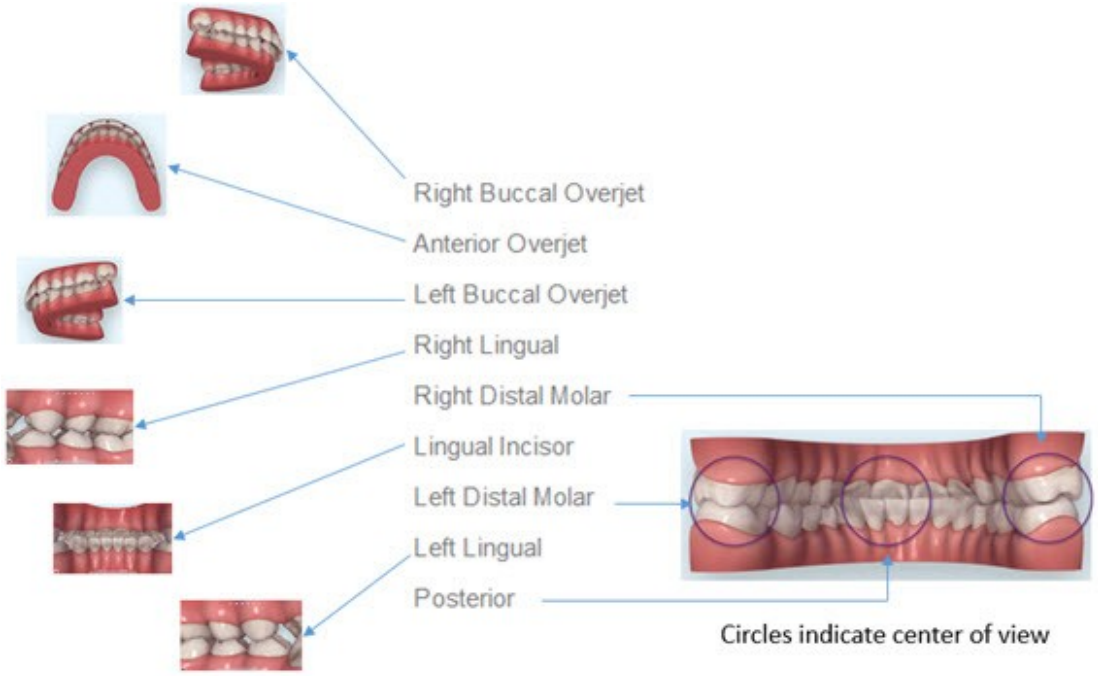
- Choose Free-Form (default), Simple or Precise (see page 18 for more information).

Click **OK** to save your changes or **CANCEL** to revert to the previous settings.

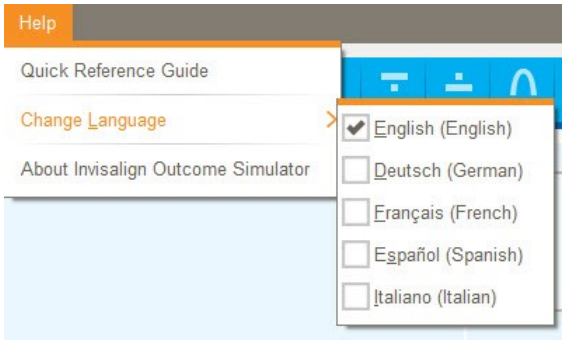
7.2 View Menu



The View menu gives you access to a number of secondary views of the 3D model. The outcome of selecting these views is shown in the figure below. See page 18 to learn how to change the primary view.



7.3 Help Functions





The Help submenu provides access to the following information:

- *Quick Reference Guide* opens this user guide in the browser.
- *Change Language* displays the dialog box shown. Select the desired language by checking the box.
- *About Invisalign Outcome Simulator* provides key information as shown at left. It also includes a link to contact customer support or clinical support at Align Technology.

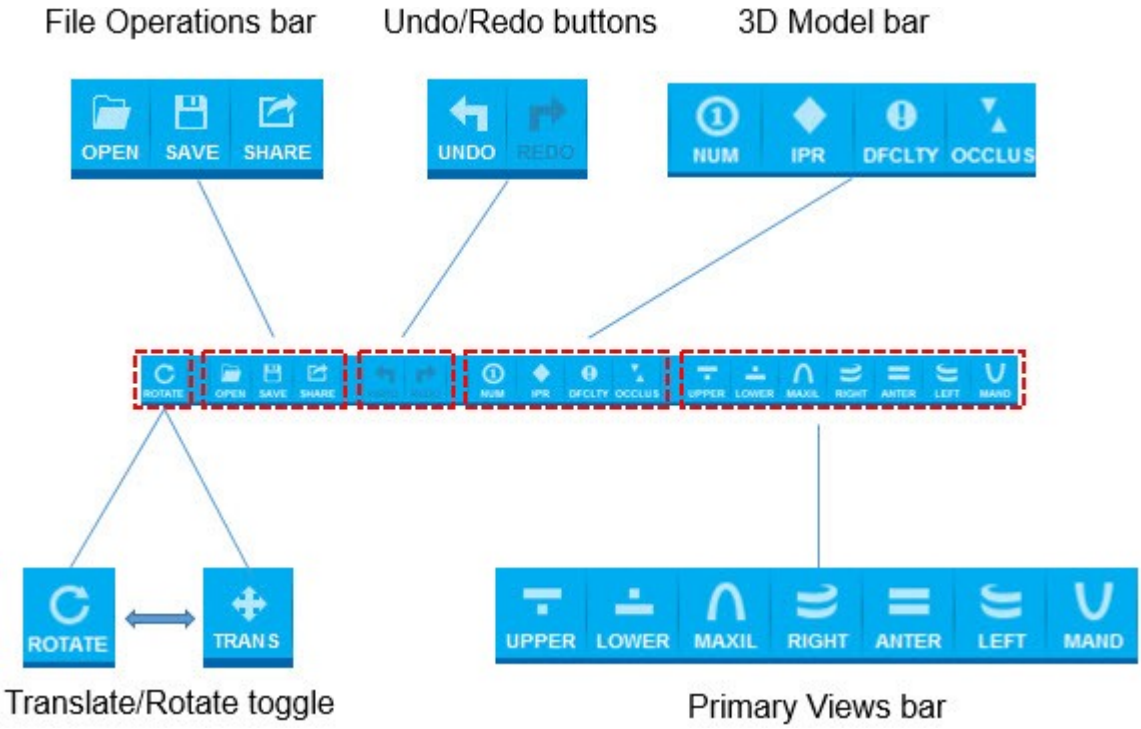
8. Toolbar Overview

The Invisalign Outcome Simulator software provides a rich set of tools that allow you to fine-tune the visual information shown for the 3D model. You can activate any tool by clicking the icon in the Toolbar. Tools can be in one of three states:

- Inactive (blue with white text) – The tool function is disabled.
- Mouseover (light blue with white text) – The mouse is in the proper position to choose the tool.
- Active (white with orange bar) – The tool function is enabled.



The full Toolbar is shown below, broken into segments. Each segment is described in a separate section below, starting with the File Operations bar and moving clockwise.



9. File Operations Bar



9.1 OPEN and SAVE Buttons

The **OPEN** and **SAVE** buttons on the File Operations bar are identical in function to the **File** → **Open** and **File** → **Save** commands described on page 10.

9.2 SHARE Button

The Invisalign Outcome Simulator software allows you to share simulated outcomes directly with your patients using the **SHARE** button. See page 27 for more information about sharing simulations.

10. Undo/Redo Buttons



The **UNDO** and **REDO** buttons are primarily used when you are making changes to the simulated outcome. When you first open a patient file in the Invisalign Outcome Simulator software, both buttons are inactive. As soon as you make changes to the simulation, you can use the buttons in the usual way: **UNDO** steps back one operation, while **REDO** steps forward one operation.

11. 3D Model Bar



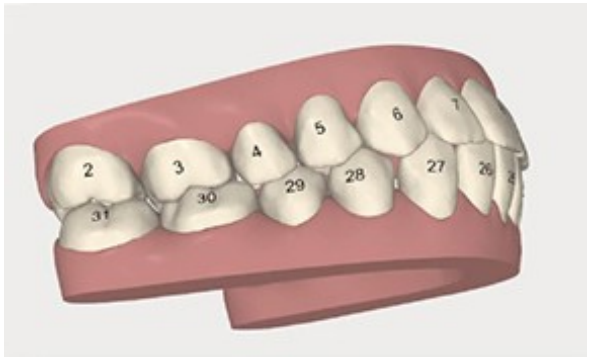
The 3D Model bar allows you to control the display of information on the patient's model. Each of the individual tools – **NUM**, **IPR**, **DFCLTY** and **OCCLUS** – is described below.

11.1 NUM Tool



The **NUM** tool enables you to hide or display tooth numbers on the 3D model. This tool is always active. By default, numbers are not displayed.

- To display numbers, click the **NUM** button.
- To hide numbers, click the button again.



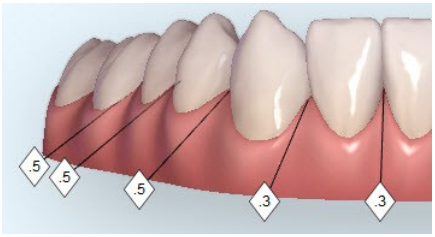
3D Model with Numbering Shown

You can change the numbering system – Universal, Palmer, or Federation Dentaire Internationale (FDI) – in the Invisalign® Doctor Site clinical preferences. The current numbering system displays on the ClinCheck model and on the Invisalign Doctor Site.

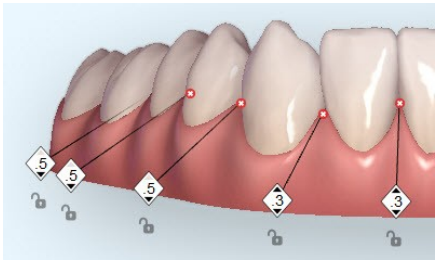
11.2 IPR Tool



The IPR tool toggles the display of IPR numerical values and controls. The figures below show the IPR display for the Align plan (left) and doctor plan (right). The function of the IPR controls shown in the doctor plan are discussed on page 24.



As shown in dual view



As shown in adjusted outcome view

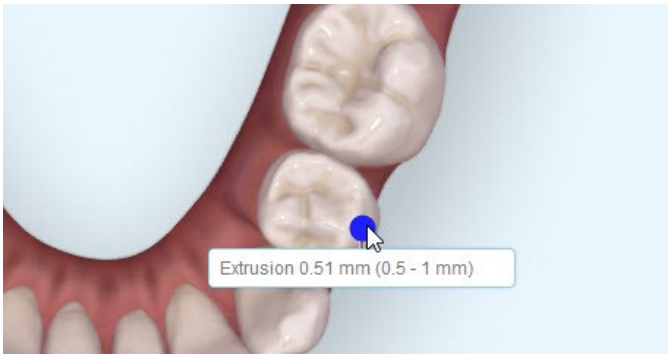
11.3 DFCLTY Tool



The **DFCLTY** (Movement Difficulty) tool shows tooth movements that could be more difficult to achieve in the treatment. Level of difficulty is indicated by color-coded dots: Blue for moderate and Black for high.

Note that you can also mouse over any dots to see the movement difficulty information as shown below. Movement difficulty includes extrusion, intrusion, rotation, and root movement.





11.4 OCCLUS Tool



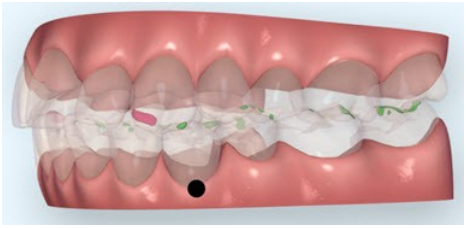
The **OCCLUS** (Occlusal Contacts) Tool toggles the view of occlusal interarch contacts in the 3D model.

When you click **OCCLUS**, the teeth become semi-transparent as shown below. Heavy occlusal contacts are shown in red, while normal occlusions are shown in green. Teeth become solid whenever you are viewing a single arch.

Note: The simulated outcome created by the Invisalign Outcome Simulator avoids heavy occlusal contacts; they are typically only present when the doctor makes changes to the outcome that create heavy contacts.



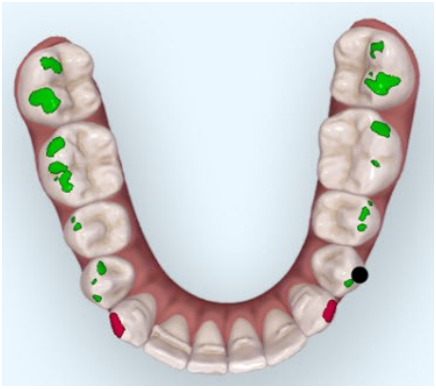
OCCLUS off



OCCLUS on



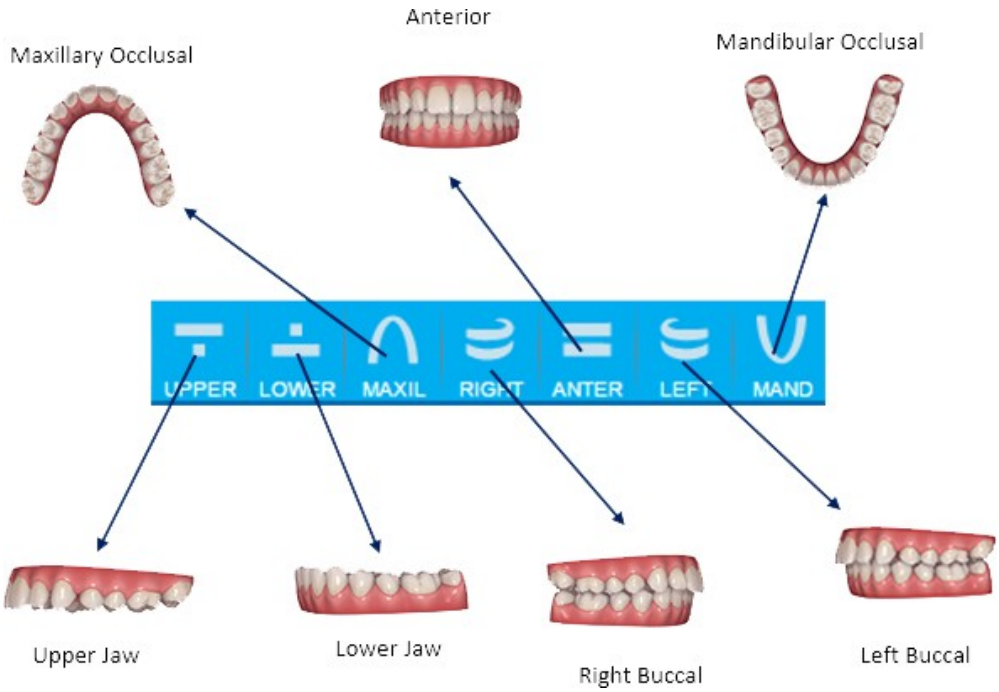
OCCLUS off



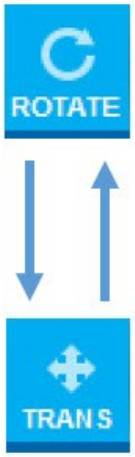
OCCLUS on

12. Primary Views Bar

The buttons on the Primary Views bar control the 3D display as shown in the figure below. See page 11 for a discussion of the secondary views.



13. Translate/Rotate Toggle



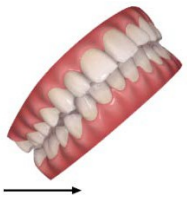
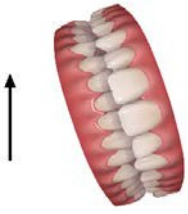
This tool toggles between two modes of motion, **ROTATE** and **TRANS** (translate).

The **TRANS** tool enables you to move the model in the plane of the display. Click anywhere on the screen and drag the model to the desired location.

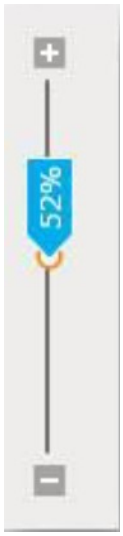
The **ROTATE** tool enables you to rotate the 3D model so you can inspect the surfaces from any direction. Click anywhere in the 3D area and drag the model to the desired rotated view.

The **ROTATE** tool has three states – Free-form (default), Simple and Precise – which can be set using Display Settings dialog box described on page 10. The definitions of these states are shown below.

ROTATE Options

Mode	Description	Effect of Movement Shown by Arrow
Reference	Anterior view	
Free-form (default)	Drag in any direction to rotate the model.	
Simple	Clicking and dragging anywhere rotates the model in either the horizontal or vertical plane, even if the cursor moves diagonally. To change the orientation, release and click again.	 
Precise	Clicking on the model and dragging rotates the model in the direction of the cursor movement, using the click point as the rotational axis.	 
	Clicking outside the model and dragging vertically tilts the model.	
	Clicking outside the model and dragging horizontally rotates the model around the click point.	

14. Zoom Slider



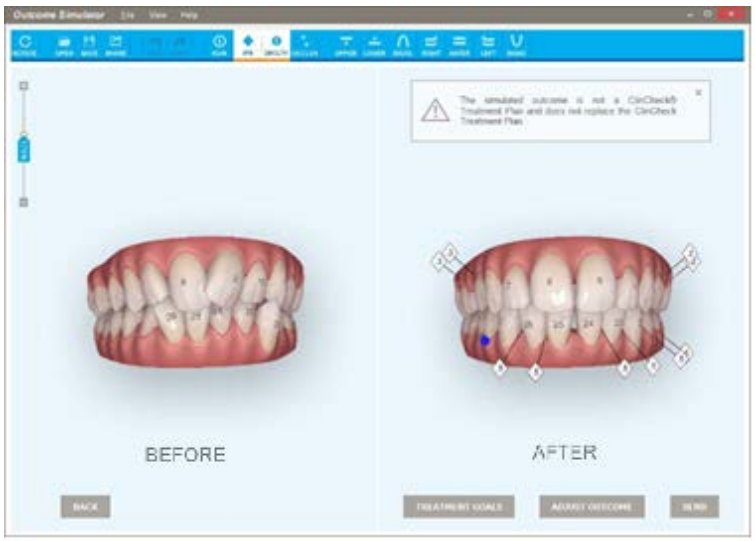
The Zoom Slider enlarges or reduces the size of the 3D model so you can see more or less detail. (Note that the mouse scroll wheel performs the same function.)

- Click the plus sign to enlarge.
- Click the minus sign to reduce.
- Place your cursor over the flag to move the flag to a horizontal position. Click the flag and move it to the zoom factor you need.

The default zoom value for each view is defined by the best fit for current window size.

SECTION III. SIMULATED TREATMENT PLAN

When you have created the simulation using the iTero scanner, the Invisalign Outcome Simulator screen shows the simulated outcome side by side with the current dentition as shown below.



There are three primary actions that can be taken from this screen, corresponding to the three Action bar buttons: set treatment goals, adjust the outcome, and send the simulation to Align. Each of these actions is described in a separate section below.

15. Setting Treatment Goals

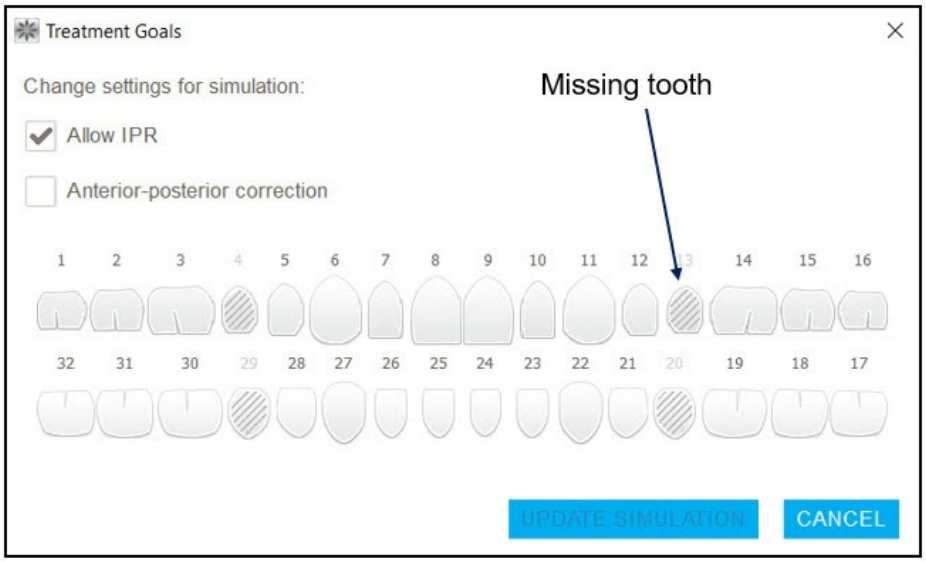
TREATMENT GOALS

To set treatment goals, first click on the **TREATMENT GOALS** button. The Treatment Goals dialog box appears as shown below. Missing teeth are indicated by crosshatching as shown in the figure.

You can perform two basic actions using this dialog box, select tooth status and change simulation settings.

When the **UPDATE SIMULATION** button is grayed out, the current simulation reflects the current settings in the Treatment Goals dialog box.

Conversely, when you change any setting, the **UPDATE SIMULATION** button becomes active, indicating that you must update the simulation to reflect the changes.



15.1 Selecting Tooth Status

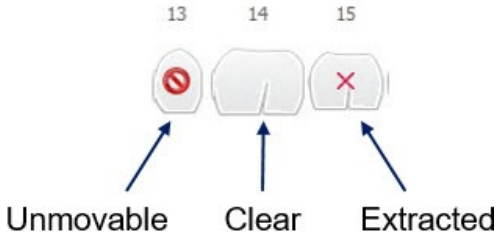


You can designate one of three states for teeth that are present in the simulation model: Unmovable, Extracted, and Clear. (You cannot change the status of missing teeth.)

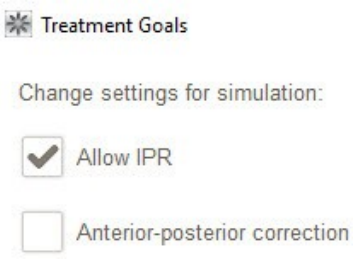
- To change the status of a tooth, first click on the tooth. The Tooth Status menu appears as shown at left.
- Select the desired state by clicking the radio button.
- Use the Clear option to remove prior actions on the tooth.

Changing any tooth status requires that the simulation be run again.

Tooth status is indicated by the symbols shown in the diagram below.



15.2 Changing Simulation Settings

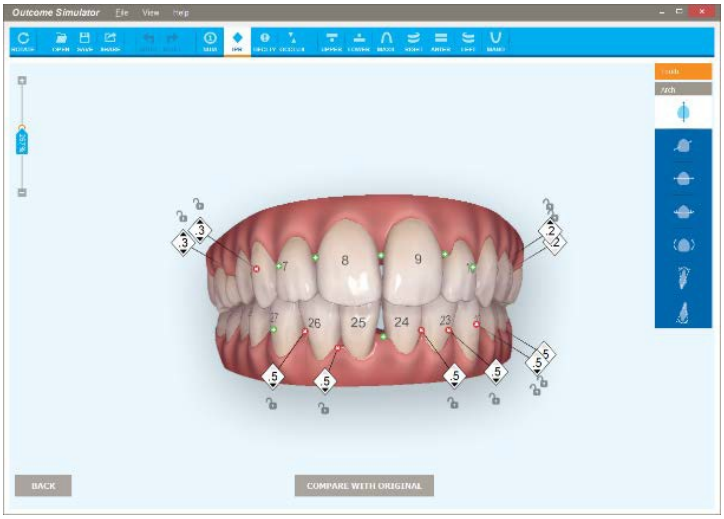


By default, the initial simulation is run with Allow IPR active and Anterior-Posterior Correction inactive, as shown at left.

- To prevent IPR and spaces, deselect **Allow IPR.**
- To add posterior tooth alignment to the simulated outcome, select **Anterior posterior correction**

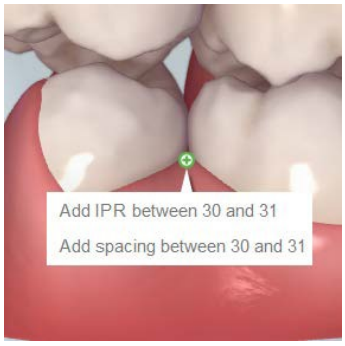
Changing either of these settings requires that the simulation be run again.

16. Starting the Adjustment Process

ADJUST OUTCOME	To begin the process of adjusting the outcome, first click on the **ADJUST OUTCOME** button. The screen changes to the view shown below. 
COMPARE WITH ORIGINAL	At any time during the process of creating the simulated outcome, you can view the original simply by mousing over the **COMPARE WITH ORIGINAL** button. The view returns to the adjusted plan within a few seconds after you move the mouse away from the button.
BACK	To return to the dual view of current dentition and simulated outcome, click the **BACK** button.

17. Changing IPR Values

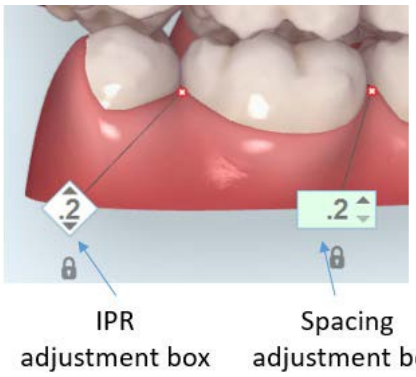
17.1 Adding IPR and Spacing



To add IPR or spacing:

- Click the green plus sign.
- Select the option to add IPR or spacing.

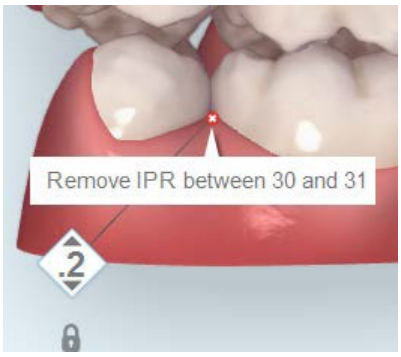
Note: If the “Add IPR” option is not visible, you have selected No IPR on the 3D Controls toolbar.



Either a diamond-shaped (IPR) or rectangular (spacing) box appears as shown at left.

- Adjust the values by clicking on the up and down arrows, by using the mouse scroll wheel, or by swiping up and down on the IPR/space box.

17.2 Removing IPR and Spaces

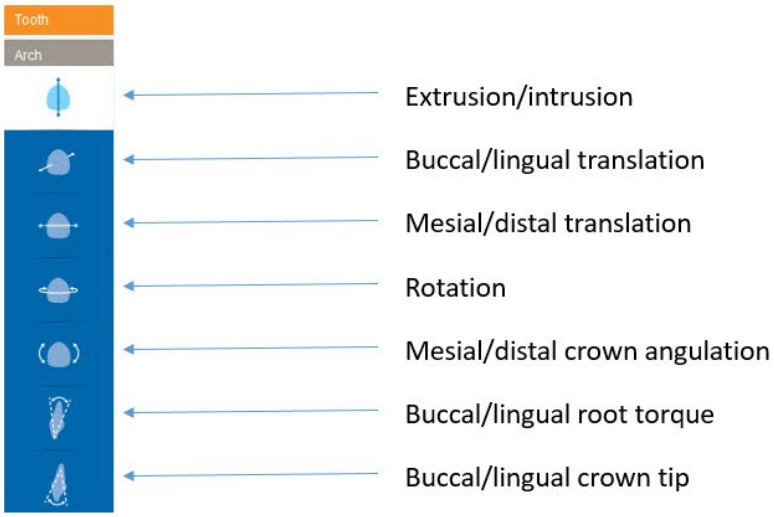


To remove IPR or spacing:

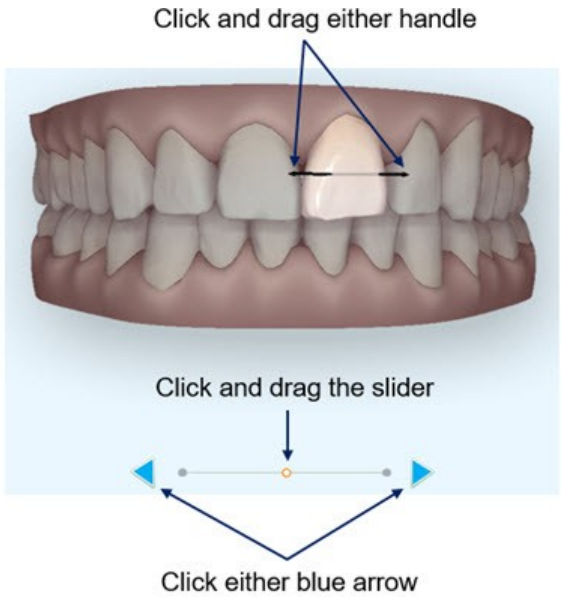
- Click the X in the red dot.
- Select the option to remove IPR or Spacing.

18. Changing Tooth Positions

The Tooth option presents a set of tools that give you precise control of tooth movements in a wide range of orientations. Click on the Tooth button at the top of the 3D Controls toolbar to display the menu shown below

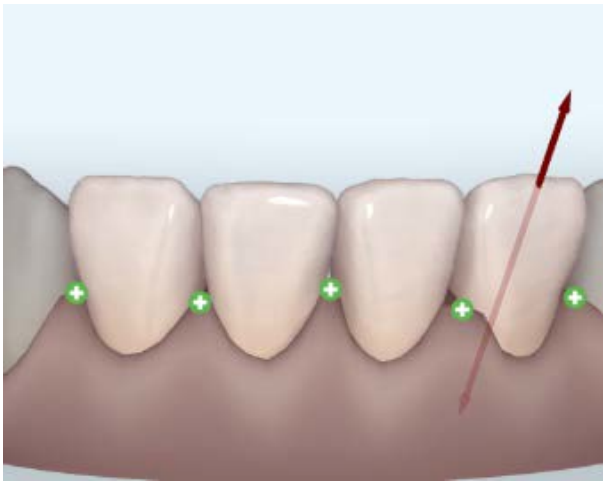


18.1 Changing a Single Tooth



- Select the desired tool from the Tooth options.
- Select the tooth to be modified. The tooth turns white while the rest darken and a symbol appears indicating the selected operation.
- Change the tooth position using any of the three methods shown at left.

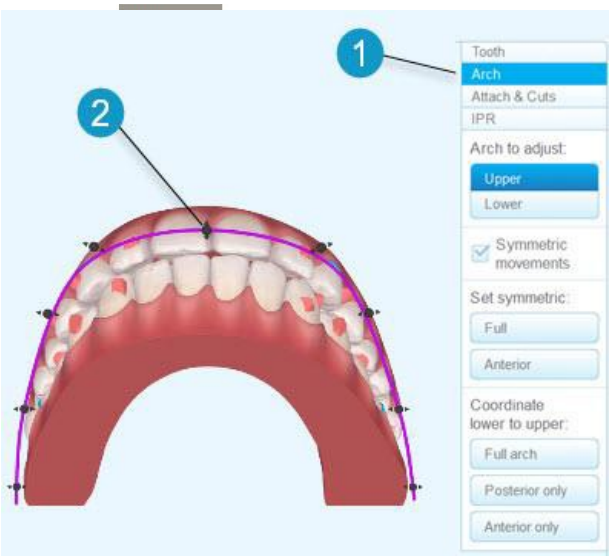
18.2 Working with Multiple Teeth



- Select the first tooth as described above.
- While holding down Ctrl, click on additional teeth to add to the selection. Note that the modification handles move to the most recently selected tooth. Any modifications you make will be equally applied to all selected teeth.
- Deselect any selected tooth by holding down Ctrl and clicking again.

19. Changing Arch Positions

The Invisalign Outcome Simulator software allows you to expand and contract the posterior arch.



Choose the desired arch adjustment parameters:

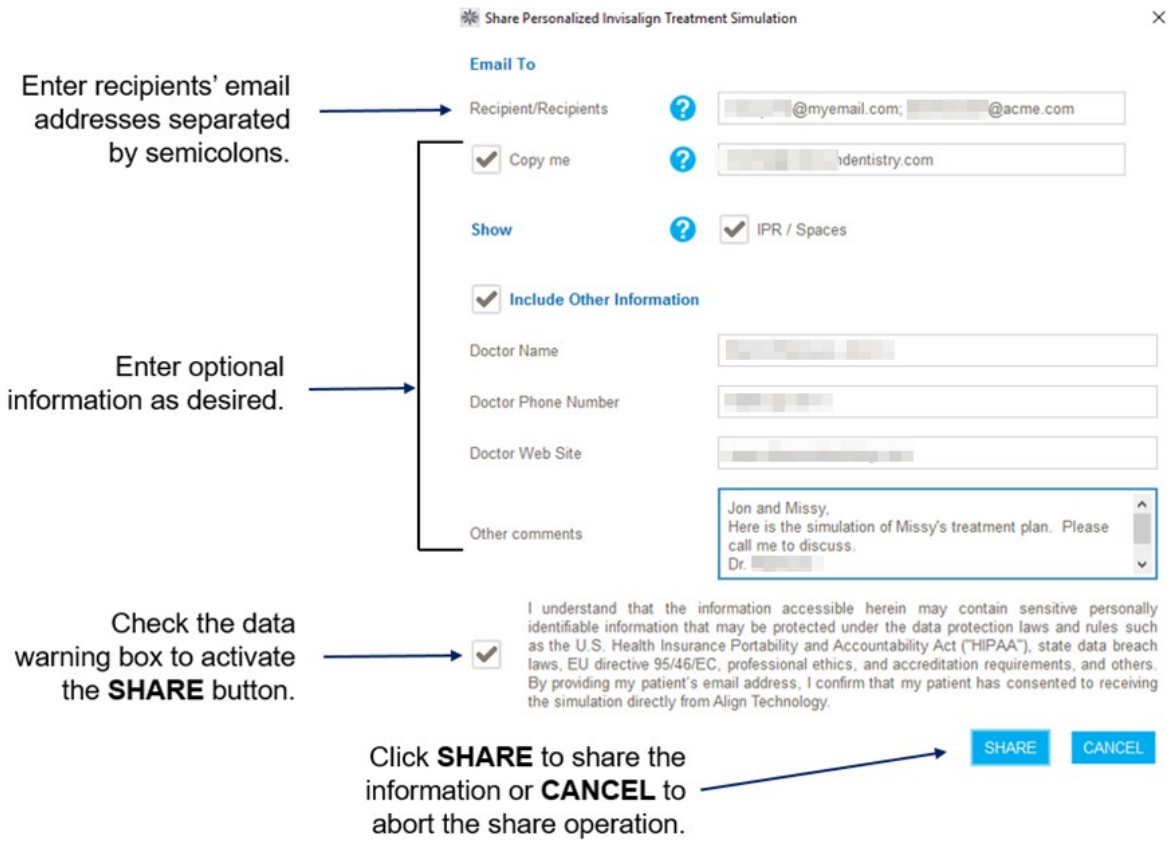
- Arch to adjust: Upper or Lower
- Symmetric movements: Applies to the selected arch only
- Full or Anterior symmetry: Applies to the selected arch only
- Coordinate lower to upper: Allows you to coordinate the opposite arch to the adjusted arch. Full, Posterior only or Anterior only

Click and drag any of the nine handles to modify the arch shape as desired.

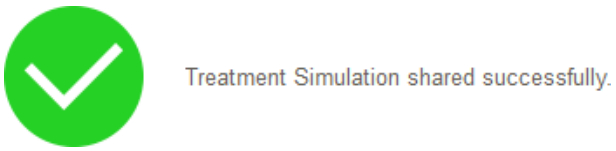
20. Sharing Simulated Outcomes with Patients

The Invisalign Outcome Simulator software allows you to share simulated outcomes directly with your patients using the **SHARE** button on the File Operations bar (see page 14).

When you click **SHARE**, the Share Personalized Invisalign Treatment Plan dialog box appears. Customize the information you want to share with your patient as shown below.

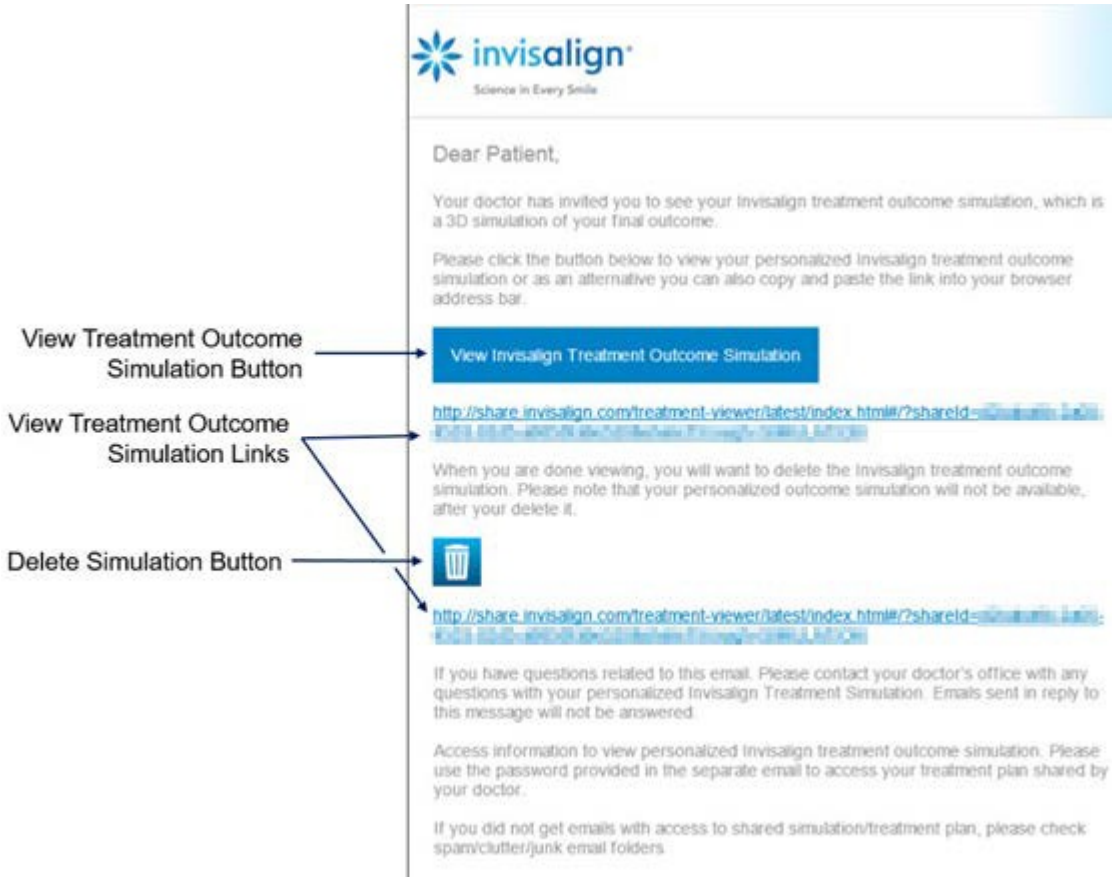


When you click **SHARE**, the sharing operation begins. When the sharing operation is completed, the system displays the following message:

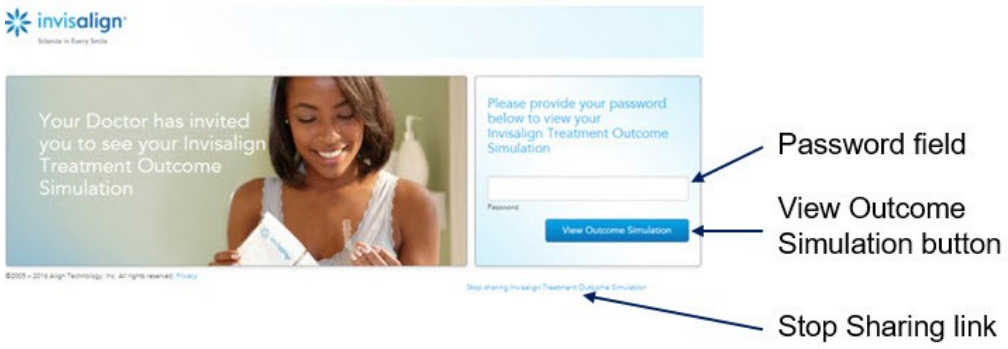


20.1 Viewing the Shared Treatment Simulation

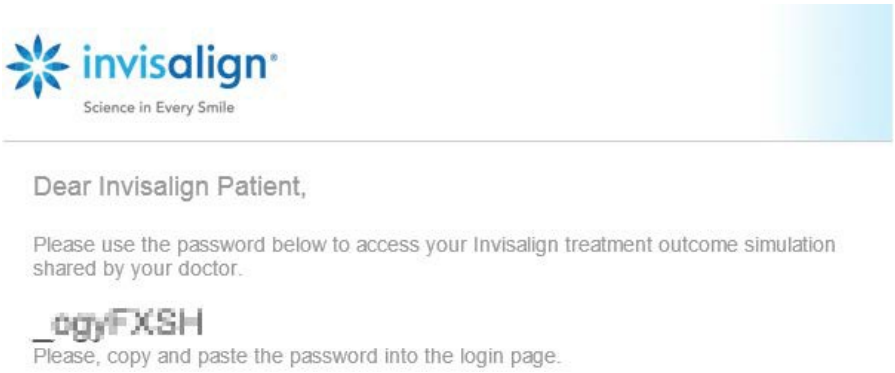
The sharing operation generates a Simulation Sharing email to each of the recipients as shown below.



To view the simulation, the recipient can click on the View Treatment Outcome Simulation button or copy and paste either of the View Treatment Outcome Simulation links into any Web browser. Either action causes the View Outcome Simulation dialog box to appear as shown below.



To view the simulation, the recipient must enter the password supplied in a separate email (shown below) into the Password field, then click on the View Outcome Simulation button.



20.2 Deleting the Simulation

Recipients can delete the shared simulation in one of two ways:

- Click on the Delete Simulation button in the Click on the Stop Sharing link in the View Outcome Simulation dialog and confirm by clicking the **OK** button.
- Click on the Delete Simulation button (trash can icon) in the Simulation Sharing email.

21. Sending the Simulation to Align

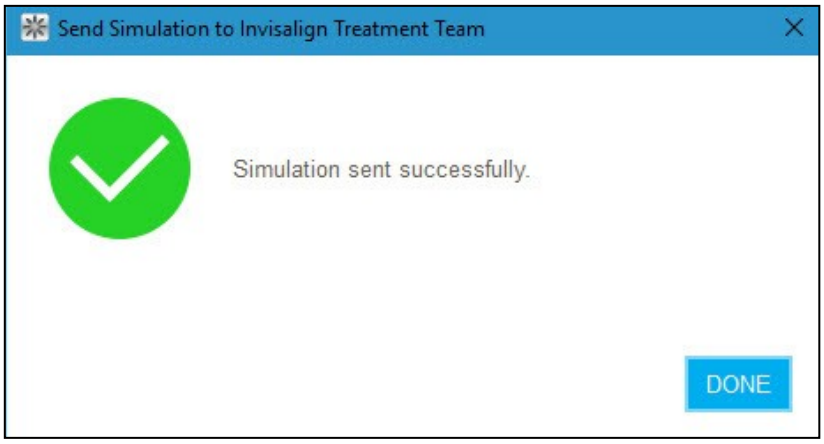
After you have made all the desired changes to the simulated outcome as described earlier, you are ready to send the simulation to Align to create a treatment plan. Sending the simulation enables the Invisalign team to create a treatment plan but does not incur any charges on your part. You must submit a prescription using your Invisalign Doctor Site before a treatment plan can be created.



- Press the **SEND** button. The Send Simulation dialog box appears as shown below.



- Read the warning statement carefully.
- Click **SEND** to continue the operation or click **CANCEL** to abort the operation.
- When the operation is completed, the system displays a completion message as shown below.



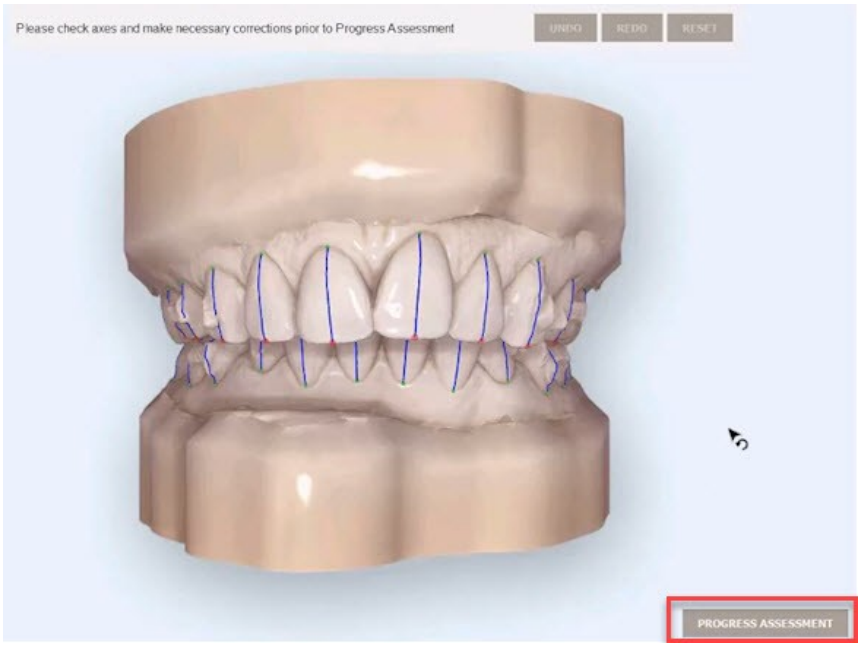
SECTION IV. PROGRESS ASSESSMENT

iTero scanners and the Invisalign Outcome Simulator software provide a means to assess the progress of a treatment plan at any point in the process.

22. Launching the Simulator in Assessment Mode

Perform a complete scan of the patient's current dentition just as you did at the beginning of the treatment process. The scanning process is described in detail in the iTero Element Intraoral Scanner Orthodontic Training Guidebook.

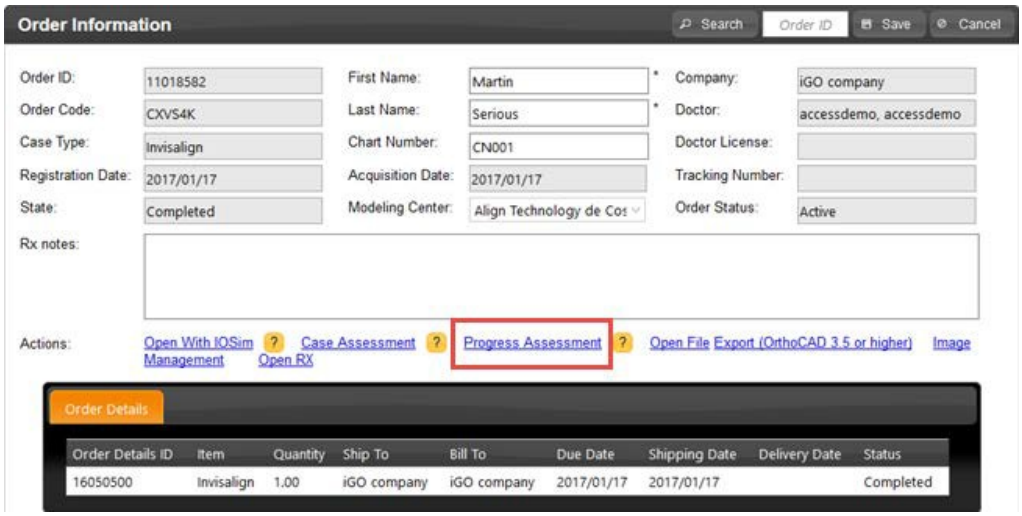
Click the Progress Assessment button shown highlighted below. This action launches the Invisalign Outcome Simulator in Progress Assessment mode.



You can also launch the simulator in Progress Assessment mode from the MyAligntech site, the patient list and the orders list.

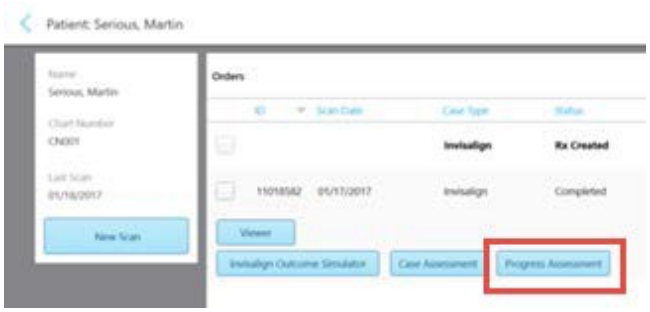
22.1 From MyAligntech

Click the Progress Assessment field shown highlighted in the screen shot below.



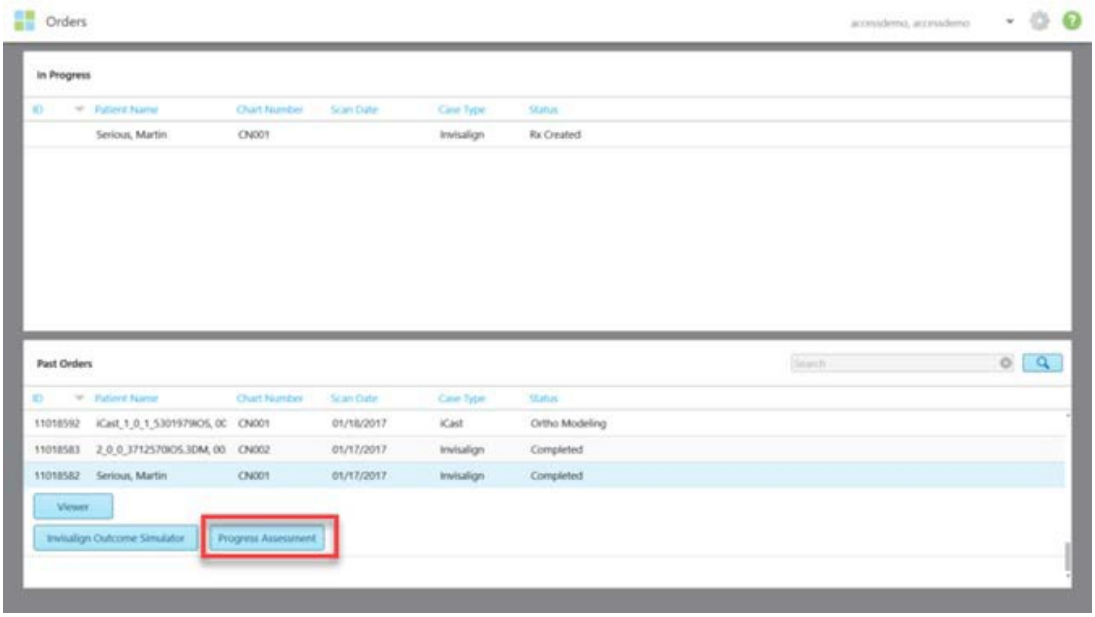
22.2 From the Patient List

Click the Process Assessment button shown highlighted in the screen shot below.



22.3 From the Orders List

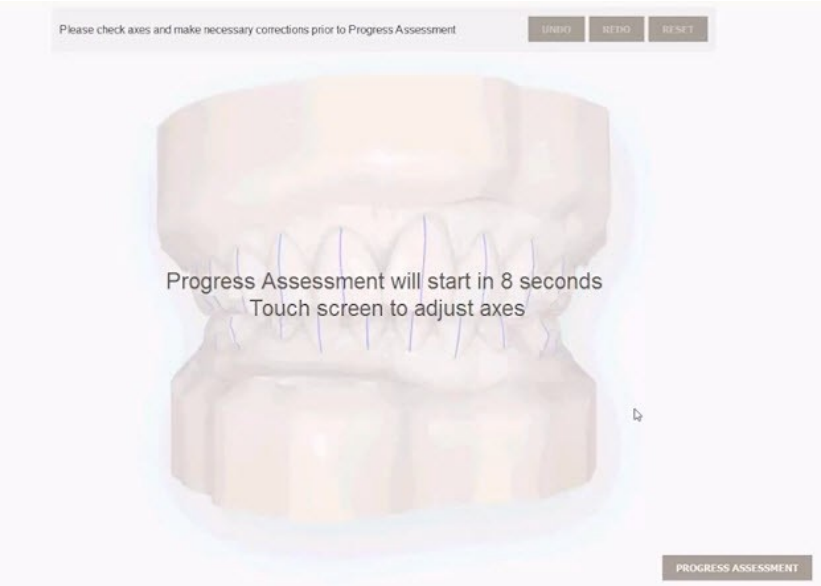
Click the Progress Assessment button shown highlighted in the screen shot below.





23. Adjusting Axes

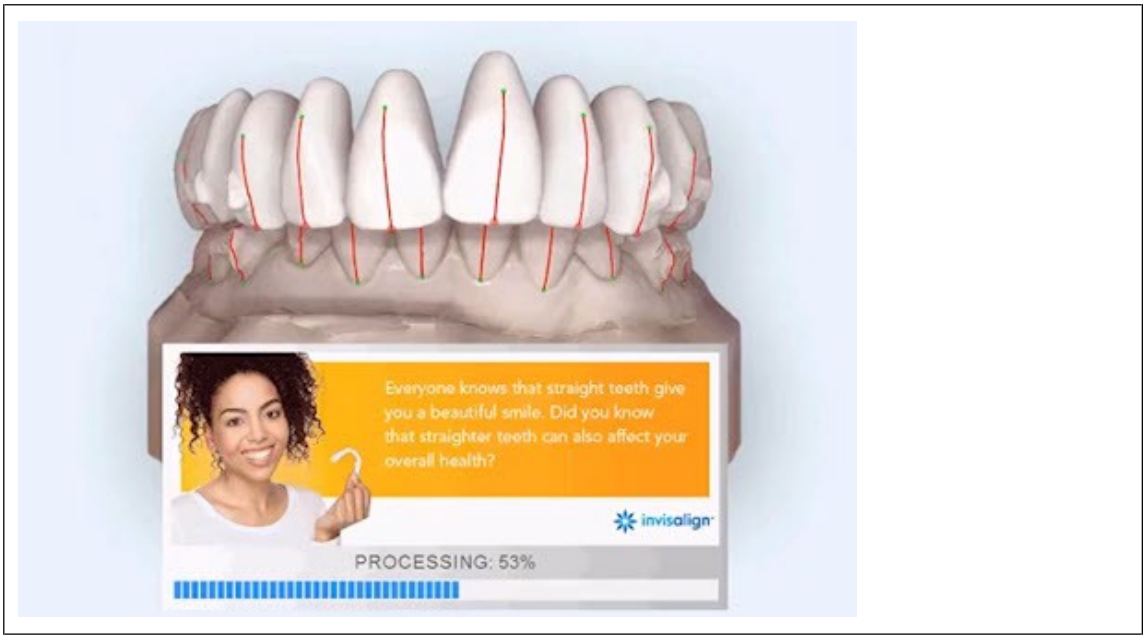
When the 3D model has been created, the screen displays the message shown below.



To adjust the axes, click anywhere on the screen before the time counts down to 0. The screen display is shown below. You can then perform adjustments using the tools described in “Adjusting Axis Lines and Tooth Numbers” on page 5.

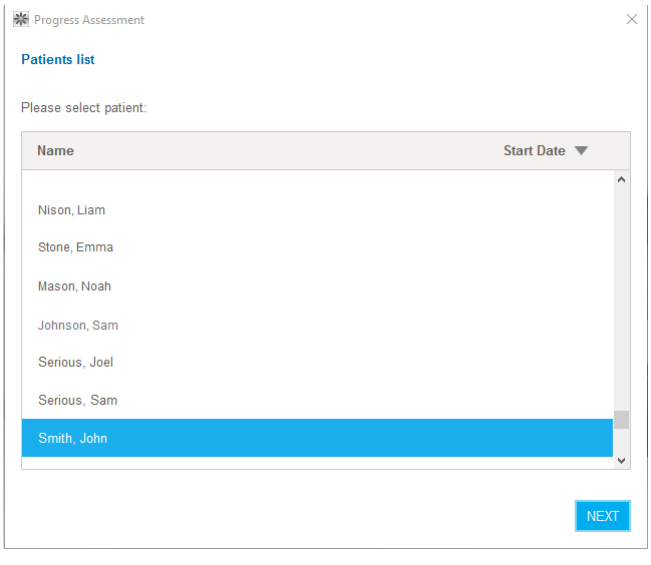
24. Setting Up the Assessment

After you launch the simulator in Progress Assessment mode, the system builds the 3D model. While the model is being built, the screen displays progress as shown in the typical screen capture below.



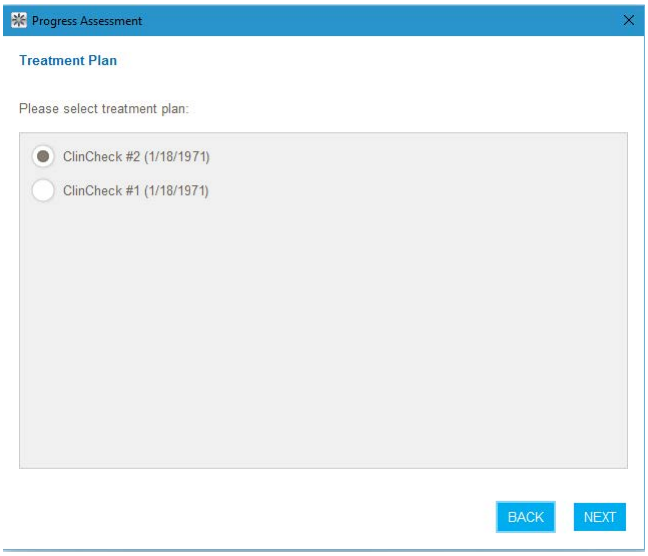
When this process is completed, the system prompts you to identify the patient and treatment plan and choose the aligner stages for the assessment as described below.

24.1 Identifying the Patient



- To sort the list by name, click on the Name header.
- To sort by start date, click on the Start Date header.
- Choose the patient from the Patients list as shown at left, then press Next.

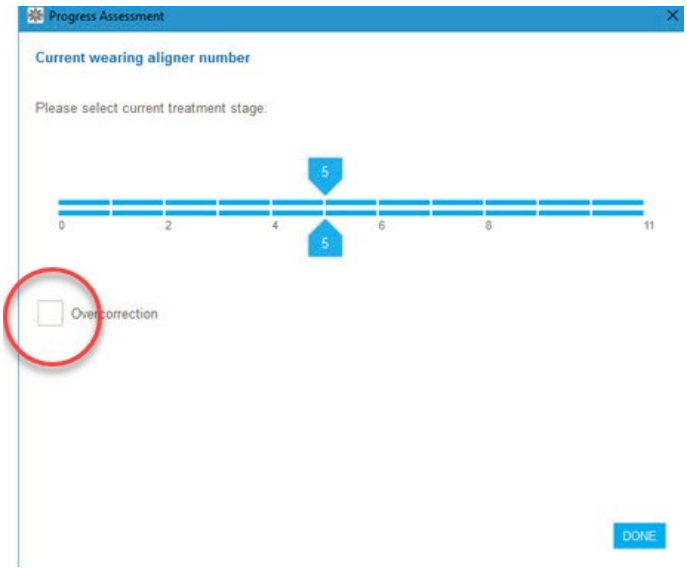
24.2 Choosing the Treatment Plan (Optional)



If the patient has more than one treatment plan, the selection dialog box appears as shown at left.

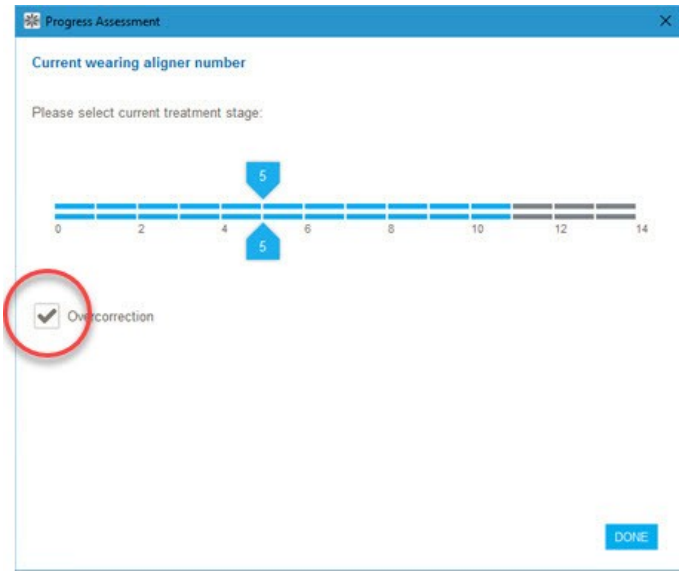
- Choose the treatment plan from the list, then press Next.

24.3 Choosing the Current Treatment Stage



If the treatment plan does not include overcorrection stages, the Progress Assessment dialog box appears as shown at left.

- Choose the current aligner numbers using the sliders as shown at left, then press Done.

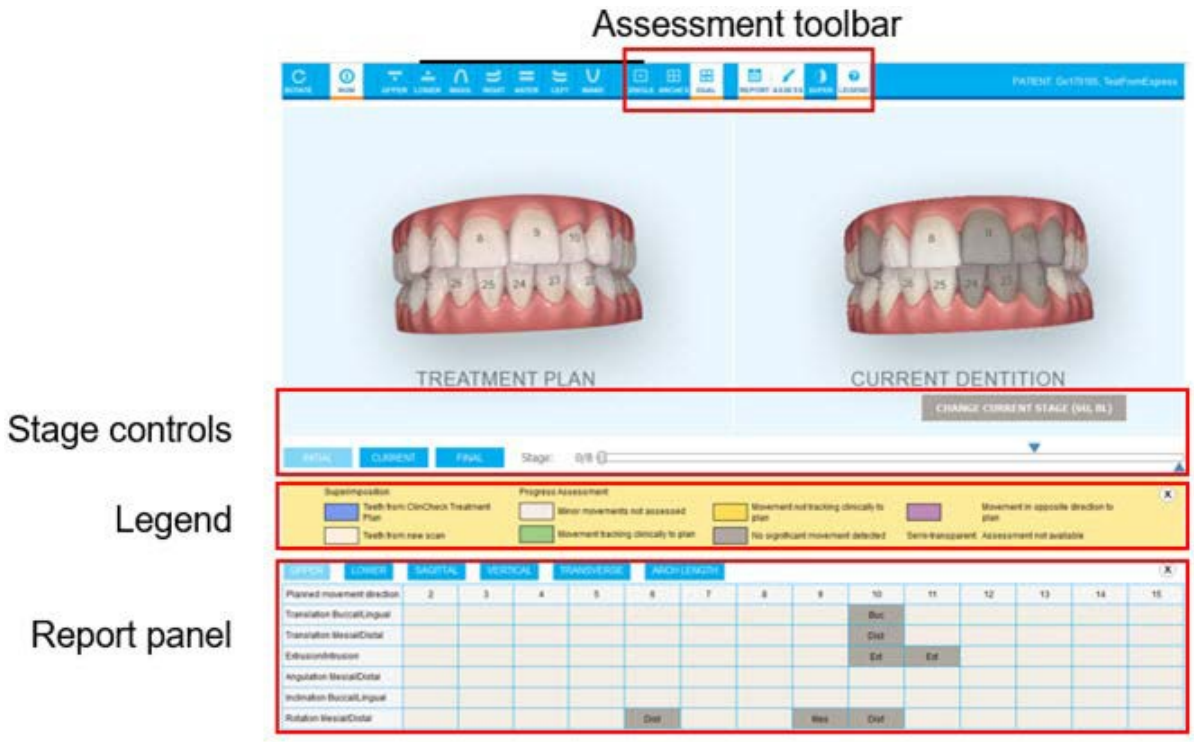


If the treatment plan includes overcorrection stages, the Progress Assessment dialog box appears as shown at left.

- Choose the current aligner numbers using the sliders as shown at left, then press Done.
- To turn off the display of the overcorrection stages, uncheck the Overcorrection box.

Once you have completed these setup steps, the Progress Assessment screen appears as shown in the following chapter.

25. The Progress Assessment Screen



25.1 The Assessment Toolbar

The Assessment toolbar allows you to control the display of the Progress Assessment information as described in this chapter.



25.2 SINGLE, ARCHES, and DUAL Tools



The **SINGLE, ARCHES,** and **DUAL** tools control the display of the 3D model as shown in the diagram below. These tools function as radio buttons, that is, only one is active at a time. The default value is **DUAL**.

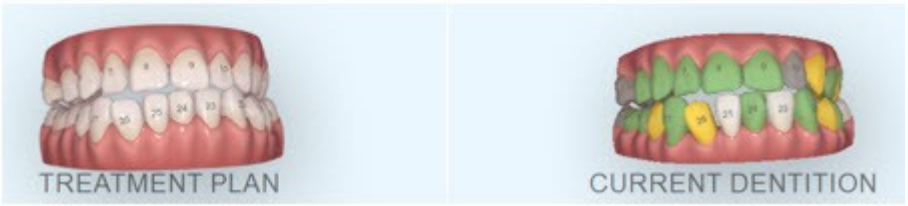
Single



Arches



Dual

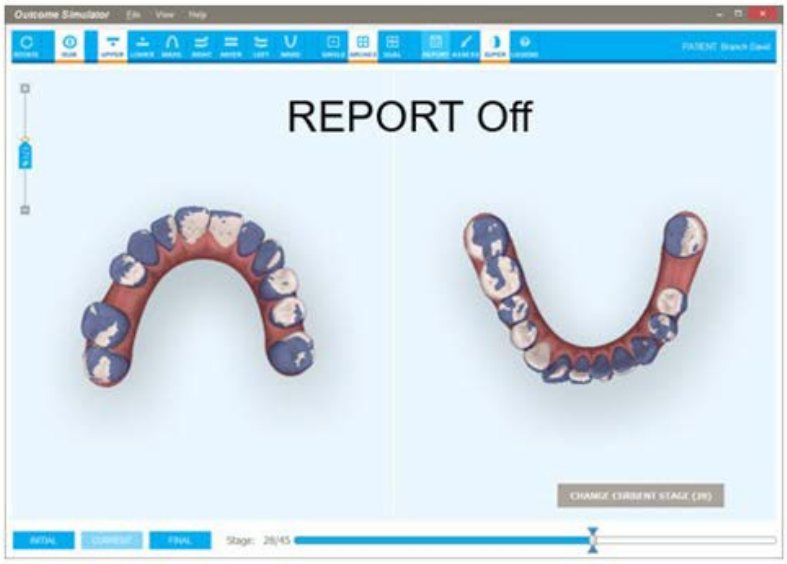


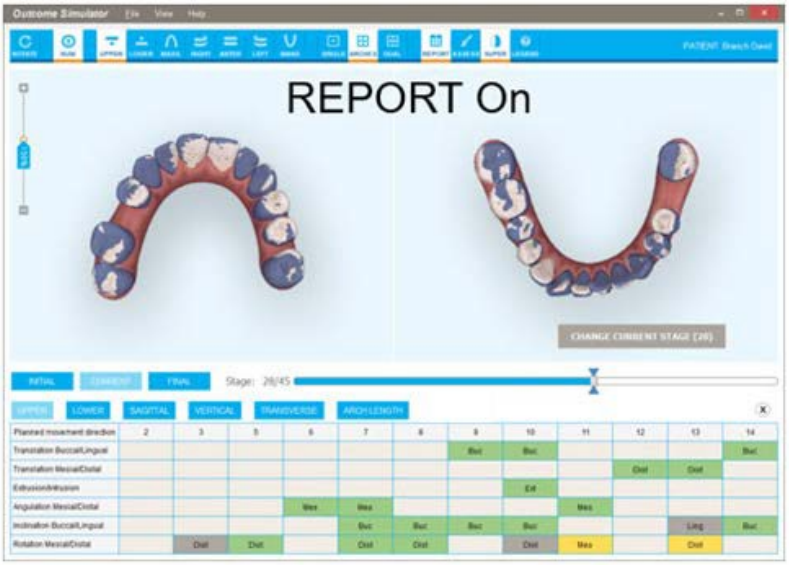
25.3 REPORT Tool



The **REPORT** button toggles the view of the Report panel as shown in the figure below.

The Report panel can also be closed by clicking the X in the upper right hand corner of the panel.



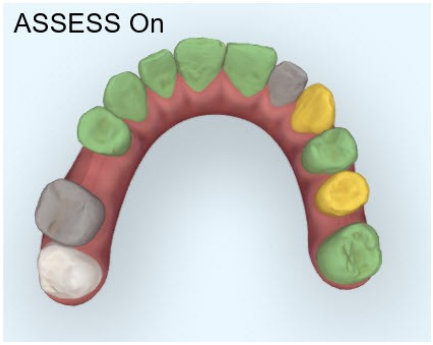


25.4 ASSESS Tool



The **ASSESS** button toggles the tooth coloring that shows the treatment assessment as shown in the figure below. The Legend panel explains the meaning of each color.





25.5 SUPER Tool



The **SUPER** (Superimpose) tool allows you to view the expected positions from the treatment plan (blue) superimposed over the actual scanned dentition (white). The blue color is translucent, allowing the white teeth to be visible.





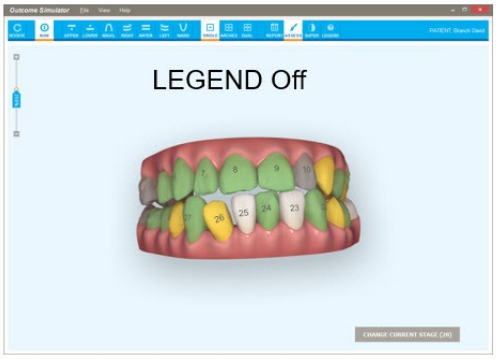
25.6 LEGEND Tool

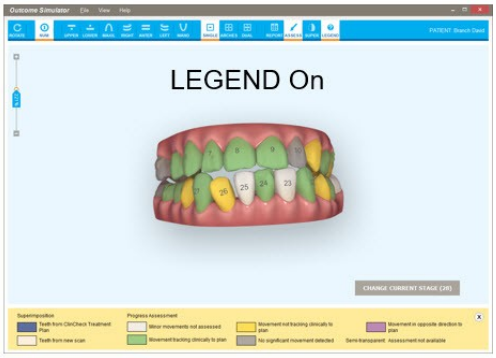


The LEGEND tool toggles the display of the Legend panel located above the Report body as shown below.

The Legend panel can also be closed by clicking the X in the upper right hand corner of the panel.

The meanings of the colors are shown in the table to the left of the screen captures.





25.7 Stage Controls

You can change the treatment stage as described below.

The Change Current Stage Button



The Change Current Stage button displays the current settings for upper and lower stages. If the stage numbers are the same, the button displays a single number.

- To change the stage, click the Change Current Stage button.

Then follow the procedure described earlier on page 36.

Stage Slider and Controls



- To view the initial, current or final treatment stages, click the appropriate Stage Control button.
- To select any stage of the treatment plan, click and drag the stage marker (the blue diamonds) on the Stage slider (see below).
- You can also click anywhere on the Stage slider to move directly to that stage. This is the recommended method for touch screens.



26. The Report Panel

The Invisalign Outcome Simulator software allows you to control the kind of information displayed in the Report panel using the Page buttons shown below. These buttons function as radio buttons, that is, only one is active at a time (in the figure, **UPPER** is active). The chart below the figure shows the information categories for each page type.



Page	Categories	Page	Categories
UPPER/LOWER	Translation Buccal/Lingual Translation Mesial/Distal Extrusion/Intrusion Angulation Mesial/Distal Inclination Buccal/Lingual Rotation Mesial/Distal	**TRANSVERSE**	Intercanine Width Upper, mm Intercanine Width Lower, mm Intermolar Width Upper, mm Intermolar Width Lower, mm
SAGITTAL	Molar Class R Molar Class L Canine Class R Canine Class L Overjet, mm Interincisal angle, degrees	**ARCH LENGTH**	Crowding/spacing Upper, mm Crowding/spacing Lower, mm
VERTICAL	Overbite (anterior) mm		

SECTION V. CONFIGURATION

27. Hardware Requirements

Hardware requirements to run Invisalign Outcome Simulator 4.2 software on a standalone computer:

- Intel Core2Duo or AMD Phenom II X4 or better
- Intel® HD Graphics
- 4 GB RAM or more

28. Anti-Virus Software Requirements

You must configure your anti-virus software if it is installed in your computer to allow the Invisalign Outcome Simulator program to communicate with the servers running the Align service. For information about configuring your anti-virus software, ask your computer support technician or contact Align Customer Care. You can find information about Align Customer Care on the Support page on the Invisalign® Doctor Site.

29. Graphics Driver Requirements

The Invisalign Outcome Simulator software displays 3D models that require up-to-date graphics drivers. To obtain help installing the graphics driver software, ask your computer support technician or contact Align Customer Care. You can find information about Align Customer Care on the Support page on the Invisalign® Doctor Site.

30. Data Security

Align takes great care in protecting the integrity and confidentiality of data from the moment it is collected. The treatment plan file is exchanged with the doctor in an Align-proprietary format (ADF) using the Invisalign Outcome Simulator software, and the transmission of these files is encrypted. While it is the customer's responsibility to protect access to their computing device as well as install appropriate malware protections, Align has the following recommendations for protecting devices/data:

- Lock the screen of the device during periods of inactivity.
- Run up-to-date anti-virus software.

- Use the Invisalign Outcome Simulator software only on private, firewalled networks.
- Avoid the use of the Invisalign Outcome Simulator software on rooted or jailbroken devices (Note: Rooting or jailbreaking describes the acquisition of complete administrator rights on the device, allowing third-party programs to perform operations that were not originally possible).

31. Symbol Glossary

Symbols Glossary			
Symbol	**Title**	**Explanatory Text**	**Standard/ Reference**
	Manufacturer	Indicates the medical device manufacturer, as defined in EU Directive 93/42/EEC.	EN ISO 15223-1* ; 5.1.1
	Authorized representative in the European Community	Indicates the authorized representative in the European Community.	EN ISO 15223-1*; 5.1.2

* Medical devices-Symbols to be used with medical device labels, labelling and information to be supplied-Part 1: General requirements.