

American Board of Orthodontics (ABO)



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On-line ABO
Documentation
in **Slide Show**
Presentation

Electronic Cast Radiograph-Evaluation (CR-E)

<https://www.americanboardortho.com/media/mgrksipl/abo-model-analysis-08-26-2021.pdf>

American Board of Orthodontics (ABO) Electronic Cast-Radiograph Evaluation (CR-E)

Established nearly one hundred years ago, the specialty of orthodontics has made great advances in the orthodontic care that is now available to the public. The result of that care, however, is absent of any credible objective treatment assessment that can be consistently measured. With the development of the new electronic ABO/CR-E assessment tool, we now have a consistent and statistically dependable method to address this past deficiency.

The purpose of this technology is:

1. To determine-with statistical accuracy-a consistent method to evaluate orthodontic treatment outcomes.
2. To assess the areas of needed clinical improvement in a practitioner's result.
3. To provide the American Board of Orthodontics the ability to establish a standard of care that will aid in protecting the public's welfare when receiving orthodontic care from a dental practitioner.

The past decade has seen a meteoric rise in orthodontic software development and its capabilities. A continuous development with positive clinical additions to Ortho Insight 3D™ software is no exception.

The following are the important steps taken by the ABO for the development of a dependable CR-E assessment tool.

Step One:

- Definition and establishment of dental landmark locations in the initial and finished dentition (“feature points”)

Step Two:

- Establishment of requirements for the accurate creation, duplication and printing of digital models
- Creation of a method for accepting measurable digital models in a nonproprietary manner (DICOM).10 (see 3DPrinting Stereolithographic Final Models)²

American Board of Orthodontics (ABO) Electronic Cast-Radiograph Evaluation (CR-E)

Step Three:

- Creation of the electronic CR-E measuring tool to objectively evaluate and measure treatment outcomes (finished orthodontic treatment results).
- To enhance the reliability and validity of the exam, the Board established a Cast Radiograph-Evaluation tool(CR-E ruler) to evaluate the final dental casts and panoramic radiographs. This scoring system was developed systematically through a series of field tests and the Board has used this initial system-with continuous updates-to evaluate clinical case reports since 1999³.

Step Four:

The Board continuously evaluates the needs of the profession. In response to changes within the profession and in society, the ABO has modified the clinical exam from a case-based oral examination to a scenario-based virtual clinical examination. These changes to the examination required:

- a) The creation of an electronic CR-E measuring tool to objectively assess treatment results virtually.
- b) Training in the use of this software.
- c) Testing of the new electronic measuring tool for reliability.
- d) Statistical assessment of the electronic CR-E measuring tool in a **non-graded portion** of the scenario-based virtual clinical examination.
- e) Subsequent modification/s of the software if necessary based on the statistical assessment of the digital software^{4,5}

The American Board of Orthodontics (ABO)

- **The Mission of The American Board of Orthodontics** is to elevate the quality of orthodontic care for the public by promoting excellence through certification, education and professional collaboration.
- **ABO Vision: The American Board of Orthodontics** is the global leader in orthodontic board certification sets the standards of care for excellence in orthodontics and dentofacial orthopedics.

The new virtual ABO Scenario-based Clinical Examination will be administered at testing centers worldwide and has far reaching implications. It removes physical barriers for the attainment of board certification with the goals to increase the numbers of ABO certified orthodontists worldwide and to improve the quality of orthodontic care being delivered to patients.

References:

1. [ABO Morphological Points ©](#)
2. <https://www.americanboardortho.com/media/sprfrapr/abo-digital-model-requirements.pdf>
3. https://www.americanboardortho.com/media/irmbyxjy/mv_cr_eval_referenceguide10-19-21.pdf
4. [ABO Model Analysis - https://www.americanboardortho.com/media/mgrksipl/abo-model-analysis-08-26-2021.pdf](https://www.americanboardortho.com/media/mgrksipl/abo-model-analysis-08-26-2021.pdf)

ABO Cast Radiograph-Evaluation (CR-E) Using Ortho Share 3D^(TM)-Online Web Viewer

1. Ortho-Share 3D^(TM)-Online

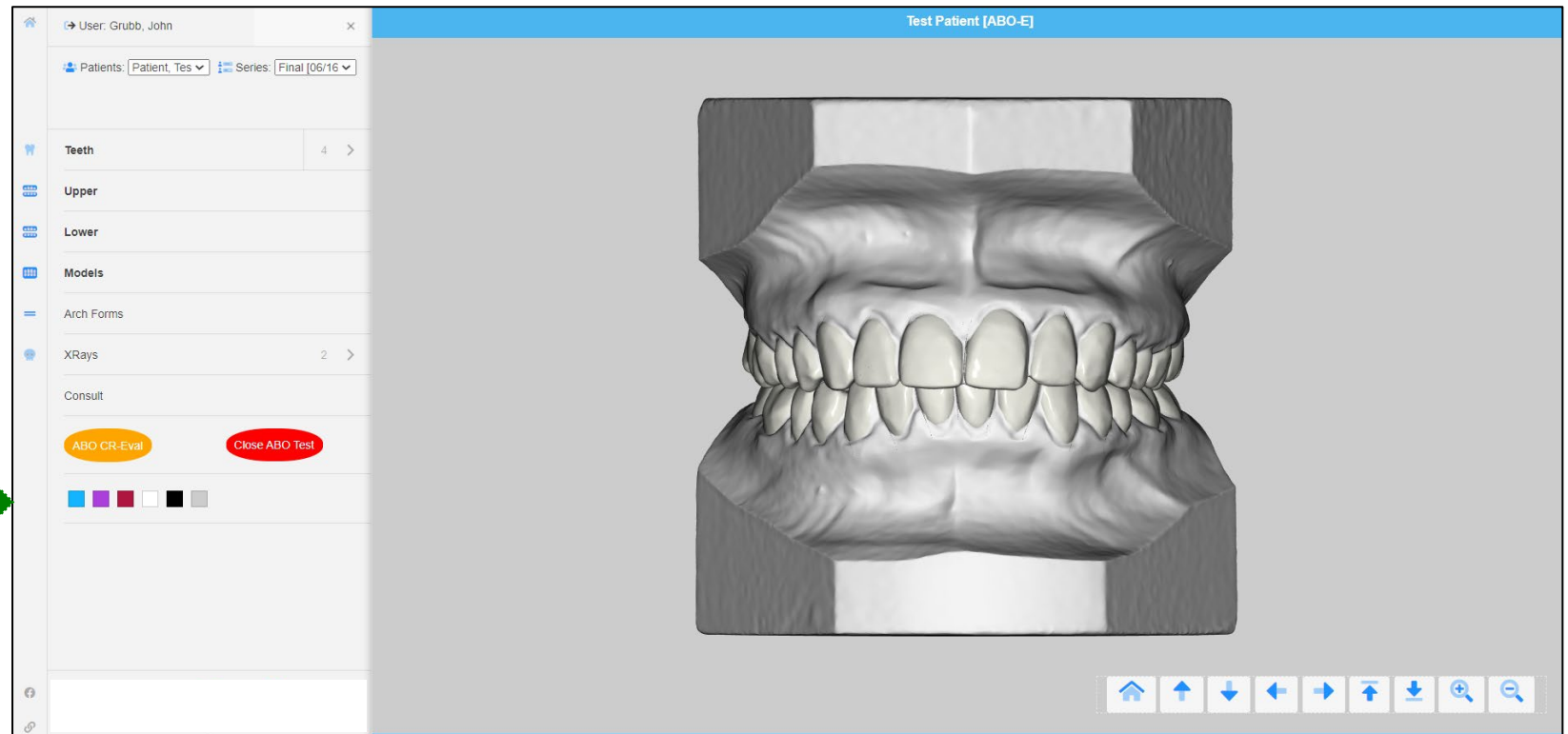
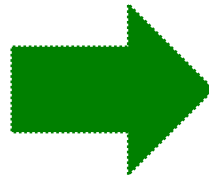


<https://viewer.motionview3d.com/index.php>

2.

Please Login

Username:	<input type="text" value="*****"/>
Password:	<input type="text" value="*****"/>
<input type="button" value="Login"/>	
Status: Waiting...	



ABO Cast Radiograph-Evaluation (CR-E) Using Ortho Share 3D™-Online Web Viewer

The screenshot displays the Ortho Share 3D™-Online web viewer interface for ABO Cast-Radiograph Evaluation. The interface is divided into several sections:

- Top Bar:** Shows the user name "User: Grubb, John" and the patient name "Test Patient [ABO-E]".
- Left Sidebar:** Contains navigation options for "Teeth", "Upper", "Lower", "Models", "Arch Forms", "XRays", and "Consult". A red arrow points to the "ABO CR-Eval" button in the "Consult" section.
- Central Evaluation Panel:** Titled "ABO Cast-Radiograph Evaluation", it includes fields for "ABO ID", "Total Score: 0", and "Length: 30m". Below these are six evaluation categories: 1. Alignment / Rotations, 2. Marginal Ridges, 3. Buccolingual Inclination, 4. Overjet, 5. Occlusal Relationship, and 6. Root Angulation. A diagram shows the dental arches with numbered teeth (1-36) and a score of "Alignment / Rotations: 0". Buttons for "START", "Measurements", "Reset Current", "Submit", and "Cancel" are at the bottom.
- 3D Model:** A large 3D rendering of the dental cast is shown on the right side.
- Bottom Bar:** Features a navigation bar with icons for home, up, down, left, right, and zoom, along with the text "Final [06/16/2020]".
- Footer:** The Ortho Share 3D™-Online logo is visible in the bottom left corner.

To Begin C-RE Evaluation Click ABO CR-E

ABO Cast Radiograph-Evaluation (CR-E) Using Ortho Share 3D™-Online Web Viewer

Step # 1

Timer
for Test

The screenshot displays the Ortho Share 3D™-Online web viewer interface for ABO Cast-Radiograph Evaluation. The interface is divided into several sections:

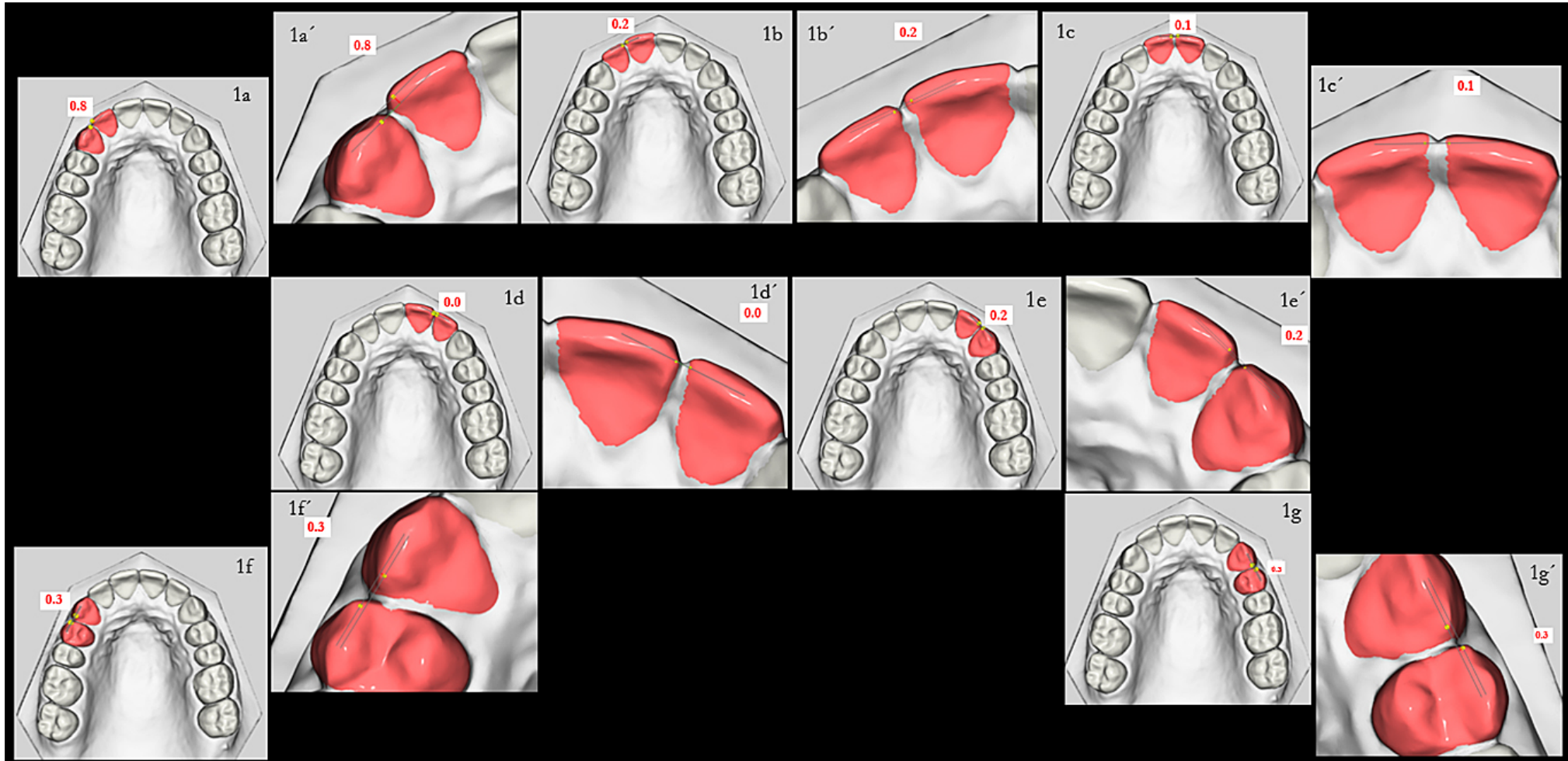
- Header:** "User: Grubb, John" and "Test Patient [ABO-E]".
- Left Sidebar:** Contains patient information (Patients: Patient, Te; Series: Final [06/16/20]), navigation options (Teeth: 4, Upper, Lower, Models, Arch Forms, XRays: 2, Consult), and buttons for "ABO CR-Eval" and "Close ABO Test".
- Central Evaluation Window:** Titled "ABO Cast-Radiograph Evaluation", it includes fields for "ABO ID:", "Total Score: 0", and "Length: 30m". It features a grid of assessment categories: 1 Alignment / Rotations (selected), 2 Marginal Ridges, 3 Buccolingual Inclination, 4 Overjet, 5 Occlusal Relationship, and 6 Root Angulation. Below the grid is a diagram of a dental arch with numbered teeth (1-16 for the upper arch, 17-32 for the lower arch) and labels "R", "MX", "L", "R", "MD", "L". A "START" button is located at the bottom left of this window, with a green dashed arrow pointing to it from a text box at the bottom right. Other buttons include "Measurements", "Reset Current", "Submit", and "Cancel".
- Right Panel:** A large 3D model of a dental cast showing the upper and lower teeth.
- Bottom Bar:** Contains navigation icons (home, up, down, left, right, zoom in, zoom out) and the text "Final [06/16/2020]".
- Footer:** "Ortho Share 3D™-Online" logo.

To Begin CR-E Testing Click **Start**

ABO Cast Radiograph-Evaluation (CR-E) Using Ortho Share 3D™-Online Web Viewer

Maxillary and Mandibular Anterior Alignment

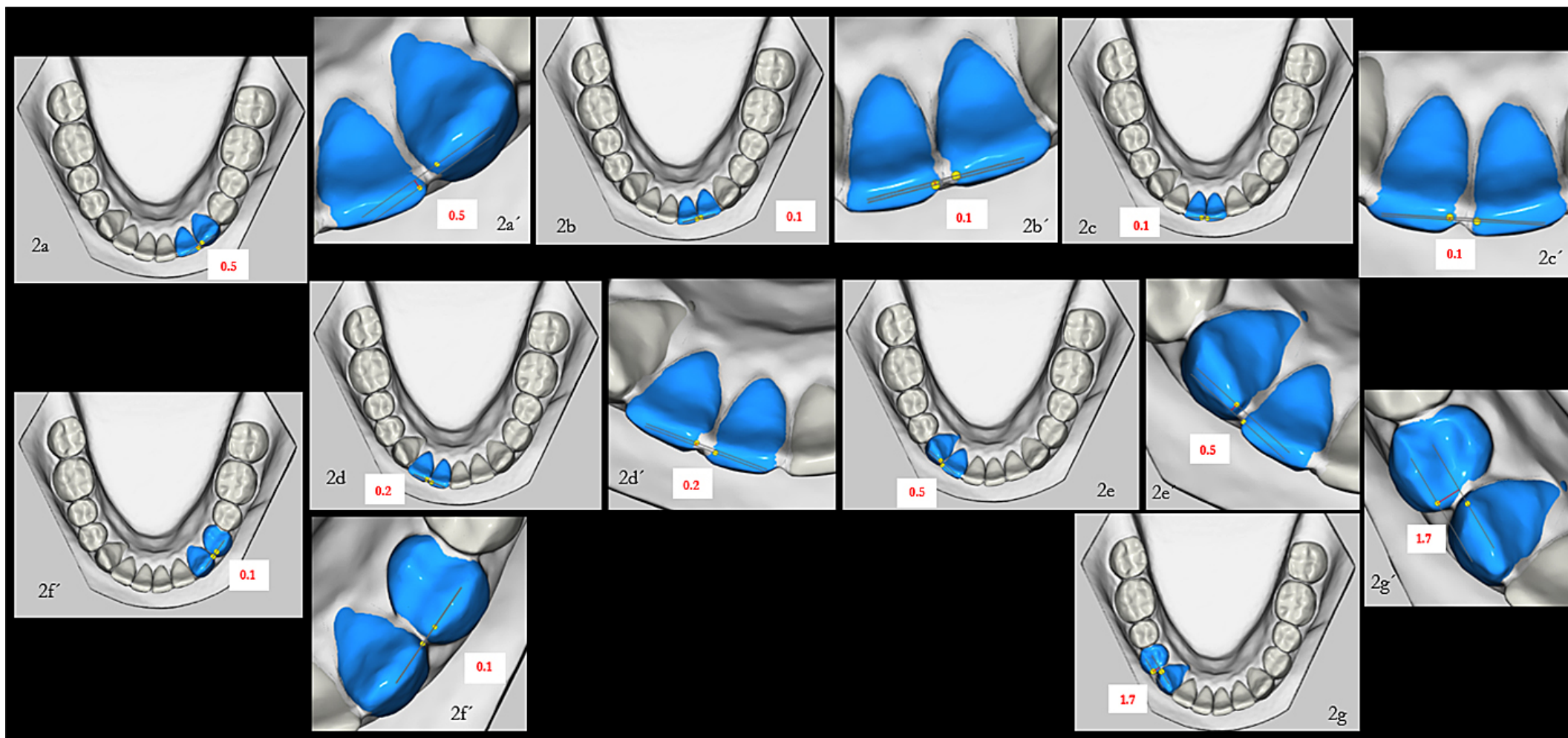
In the maxillary and mandibular anterior regions, proper alignment is characterized by coordination of alignment of the incisal edges and lingual incisor surfaces of the maxillary incisors and canines (figs. 1a-g')



ABO Cast Radiograph-Evaluation (CR-E) Using Ortho Share 3D™-Online Web Viewer

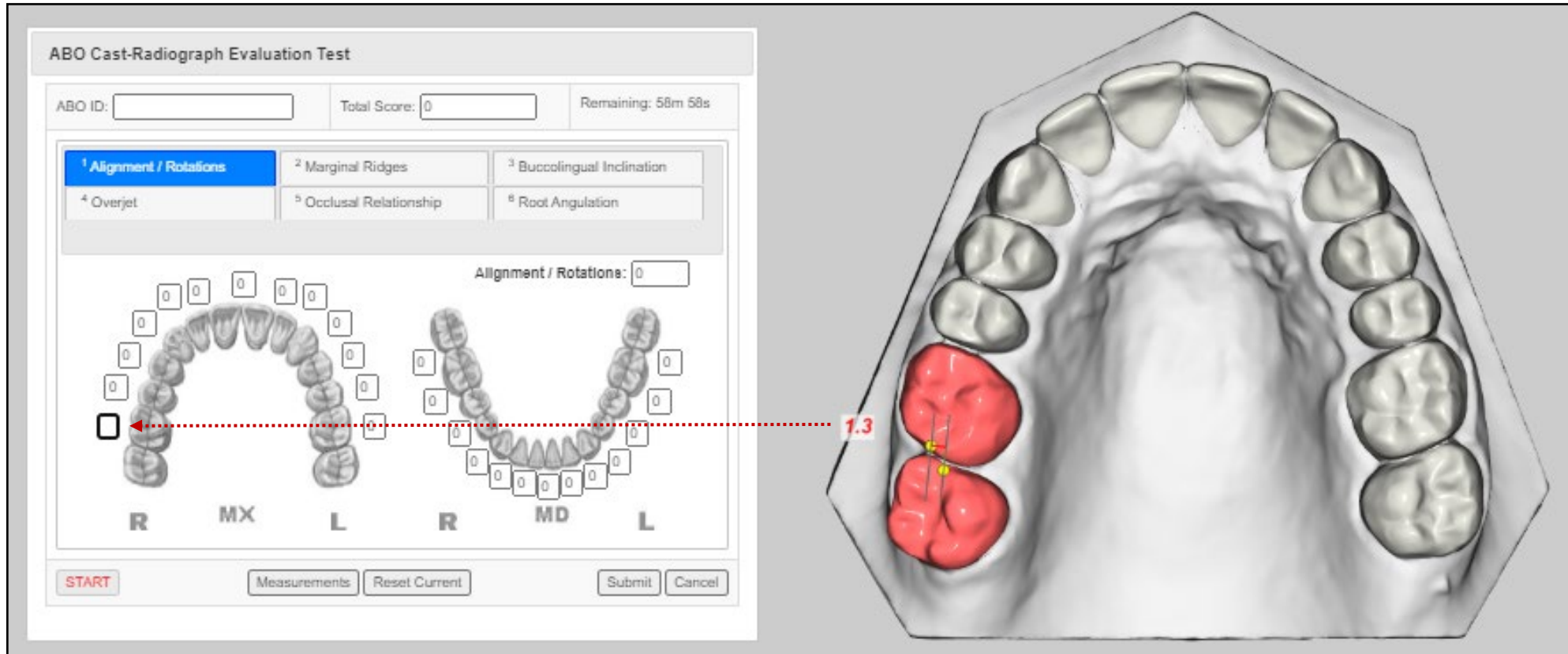
Maxillary and Mandibular Anterior Alignment

and the incisal edges of the labial surfaces of the mandibular incisors and canines (figs. 2a-g')



ABO Cast Radiograph-Evaluation (CR-E) Using Ortho Share 3D™-Online Web Viewer

Step # 1



Reference: ABO CR-E Model Analysis Revised Final Document

ABO Cast Radiograph-Evaluation (CR-E) Using Ortho Share 3D™-Online Web Viewer

Step # 2

The image shows the ABO Cast-Radiograph Evaluation Test interface on the left and a 3D dental model on the right. The interface includes a header "ABO Cast-Radiograph Evaluation Test", input fields for "ABO ID:", "Total Score: 0", and "Remaining: 58m 58s". A navigation menu lists six assessment areas: 1 Alignment / Rotations (highlighted), 2 Marginal Ridges, 3 Buccolingual Inclination, 4 Overjet, 5 Occlusal Relationship, and 6 Root Angulation. Below the menu, there are two dental arch diagrams: Maxillary (MX) and Mandibular (MD). The MX diagram shows a red dashed line connecting the 2nd molar and 1st molar on the right side, with a small box next to it. The MD diagram shows a red dashed line connecting the 2nd molar and 1st molar on the right side, with a value of "1.3" next to it. The 3D model on the right shows the maxillary arch with the 2nd and 1st molars highlighted in red, and a red dashed line connecting them with a value of "1.3" next to it. At the bottom of the interface are buttons for "START", "Measurements", "Reset Current", "Submit", and "Cancel".

1. Alignment of the maxillary right 2nd molar and 1st molar is 1.3 therefore a number two (2) is placed in the highlighted box.
2. When placing a value in this box it will activate the next assessment area.

ABO Cast Radiograph-Evaluation (CR-E) Using Ortho Share 3D™-Online Web Viewer

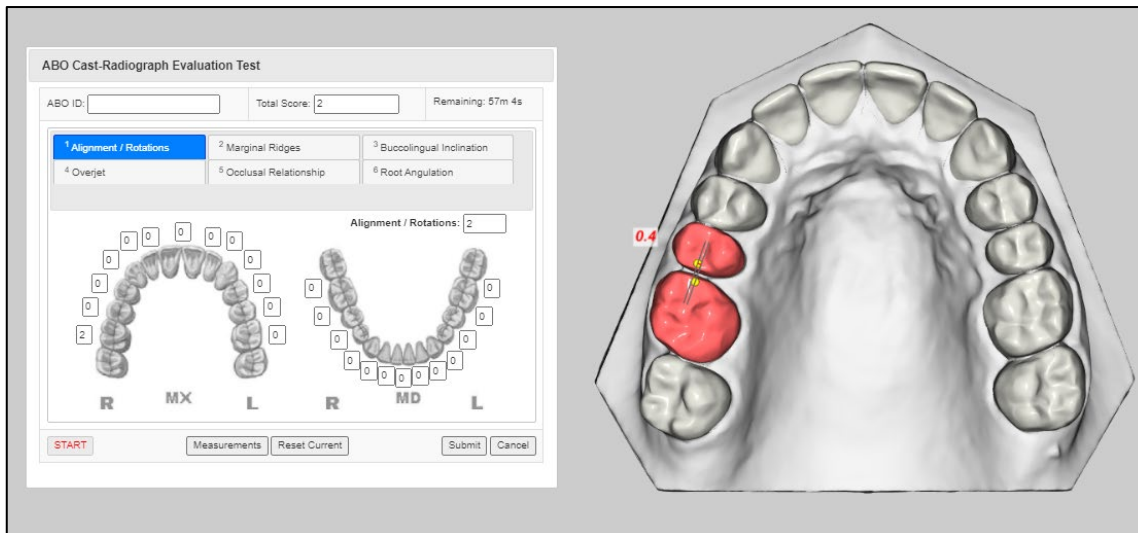
Step # 3

The image shows a screenshot of the 'ABO Cast-Radiograph Evaluation Test' interface on the left and a 3D dental model on the right. The interface includes a header with the test name, a form for 'ABO ID', 'Total Score: 2', and 'Remaining: 57m 4s'. Below this is a grid of six assessment categories: 1 Alignment / Rotations (highlighted in blue), 2 Marginal Ridges, 3 Buccolingual Inclination, 4 Overjet, 5 Occlusal Relationship, and 6 Root Angulation. A 'Alignment / Rotations: 2' score is displayed. The interface shows two dental arches (Maxillary and Mandibular) with boxes for scoring each tooth. A red dotted line points from the 'START' button to the highlighted box for the maxillary right 1st molar and 2nd premolar. The 3D model on the right shows the maxillary arch with the 1st molar and 2nd premolar highlighted in red, and a red '0.4' value is shown next to them.

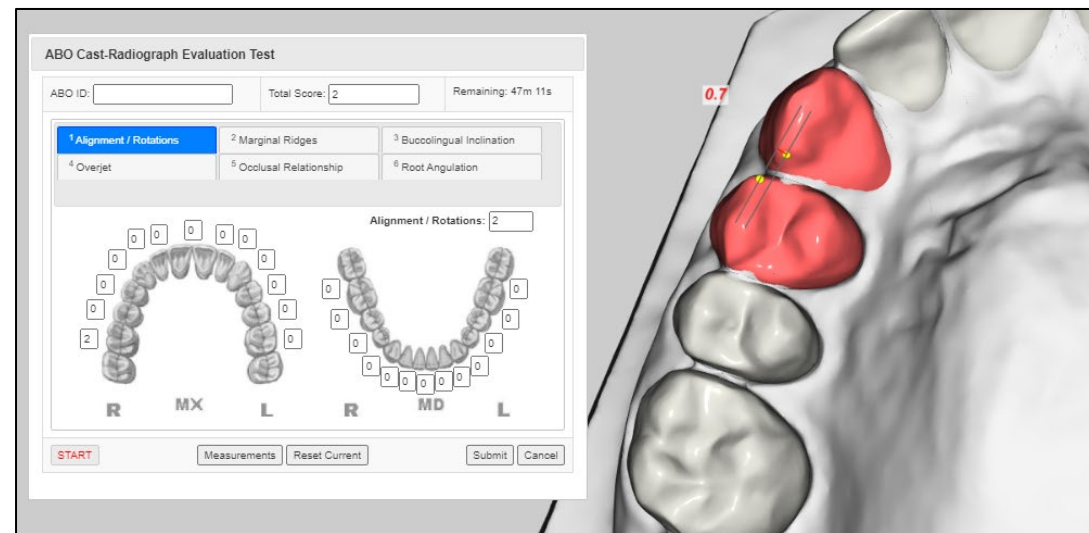
1. Alignment of the maxillary right 1st molar and 2nd premolar is 0.4 therefore a number zero (0) is placed in the highlighted box.
2. When placing a value in this box it will activate the next assessment area.

ABO Cast Radiograph-Evaluation (CR-E) Using Ortho Share 3D™-Online Web Viewer

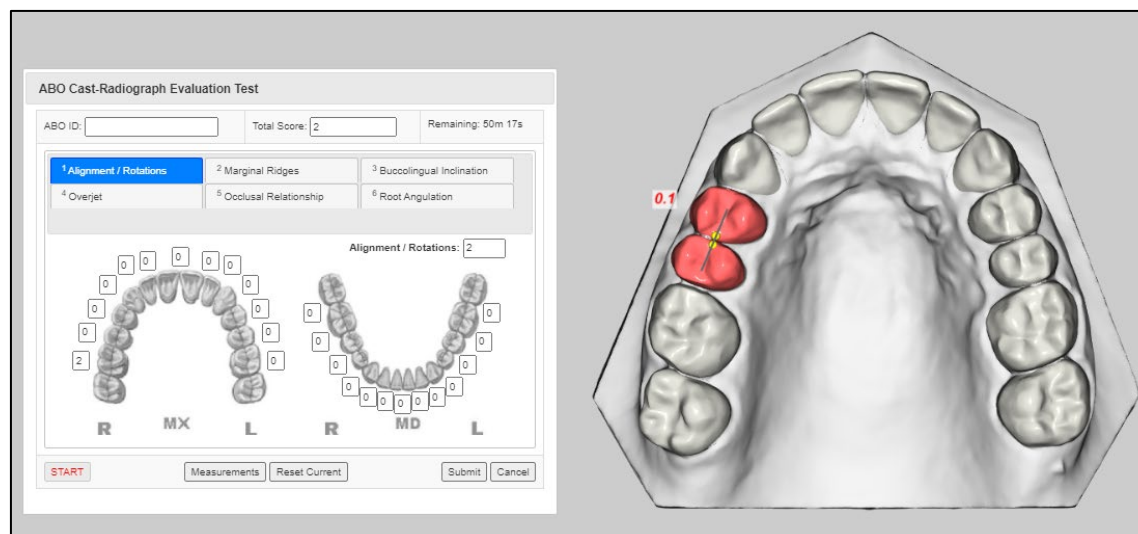
Step # 4



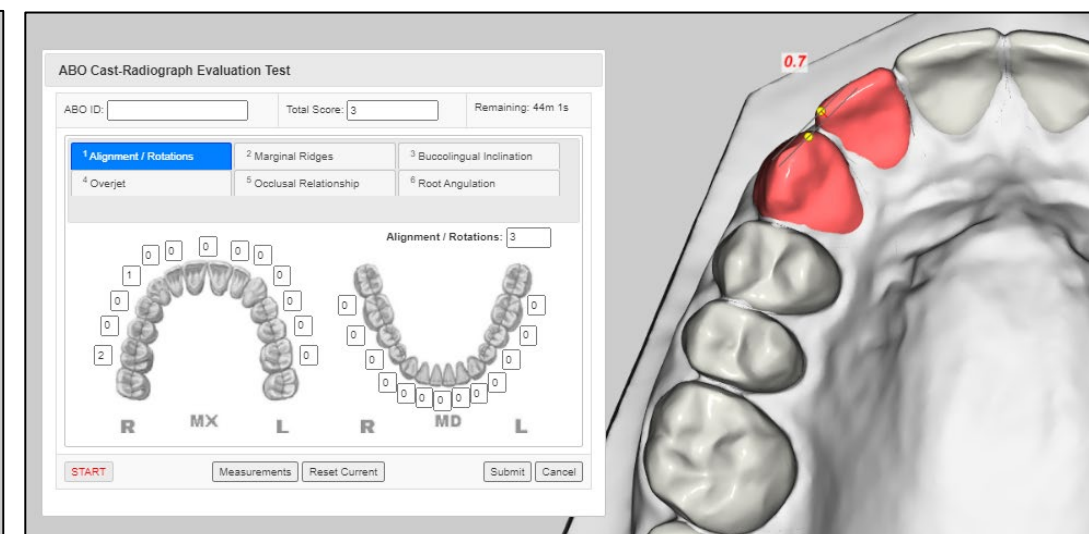
Step # 6



Step # 5



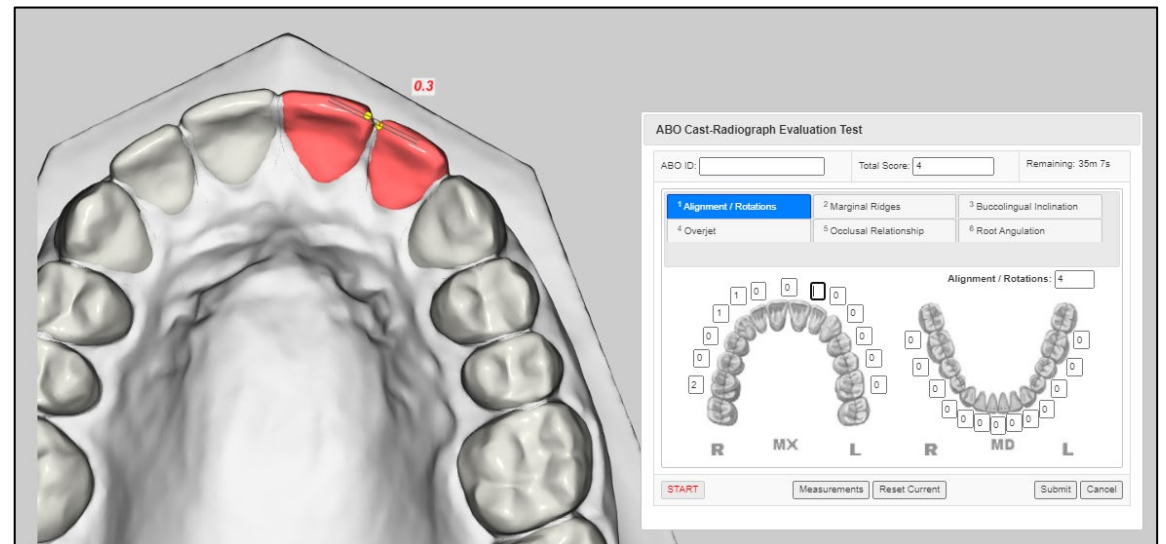
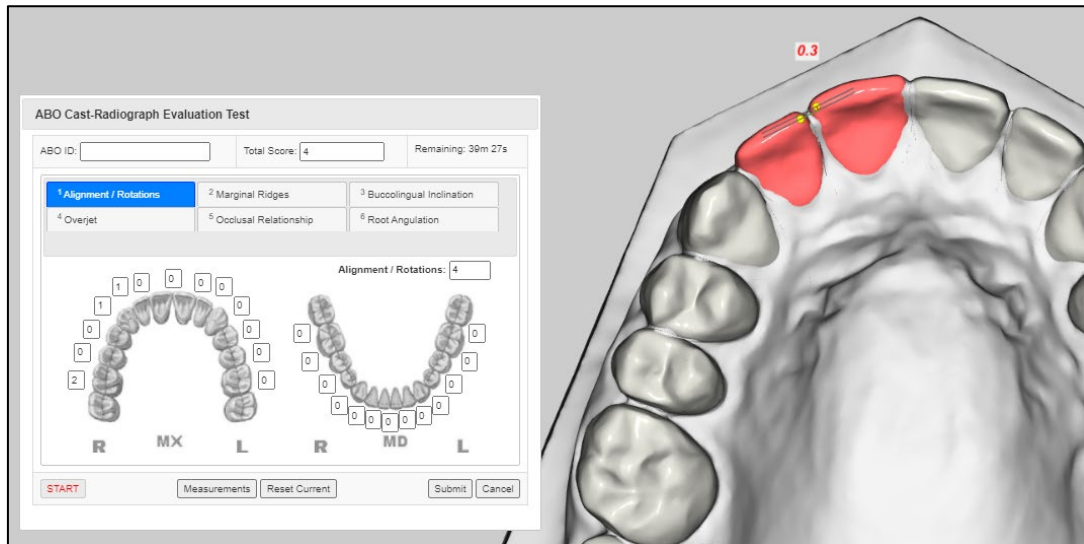
Step # 7



ABO Cast Radiograph-Evaluation (CR-E) Using Ortho Share 3D™-Online Web Viewer

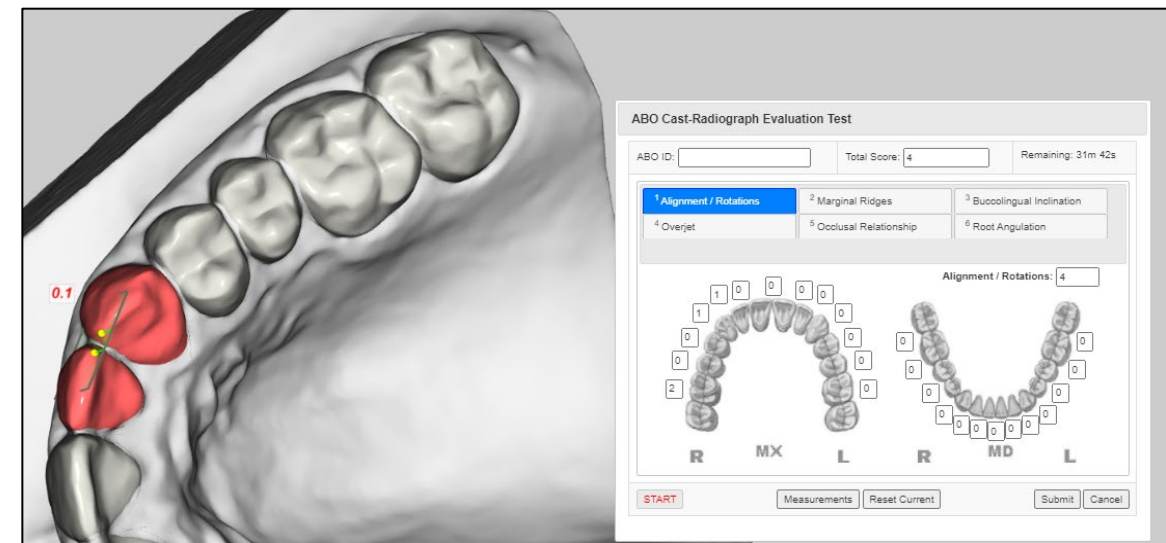
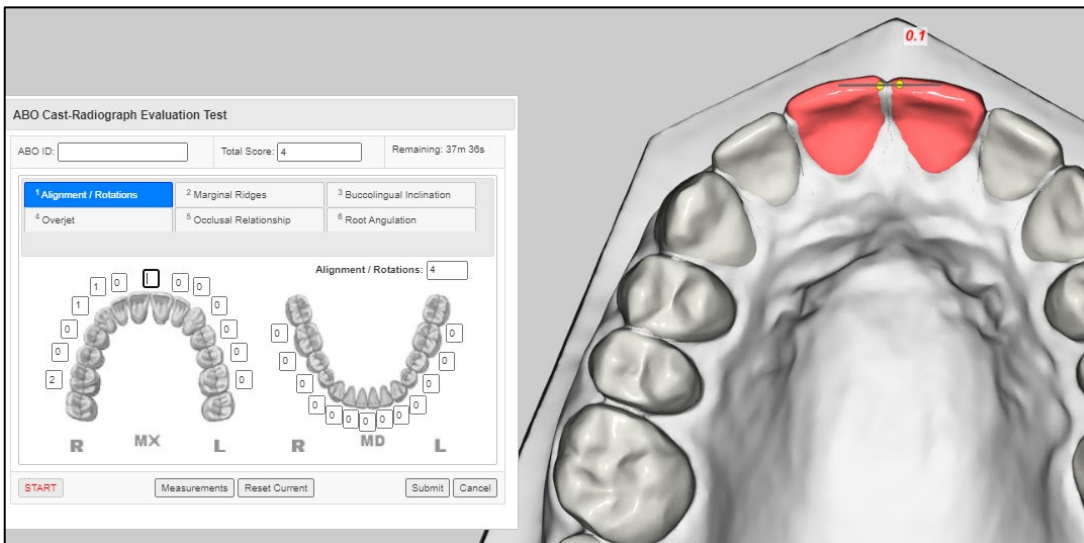
Step # 8

Step # 10



Step # 9

Step # 11

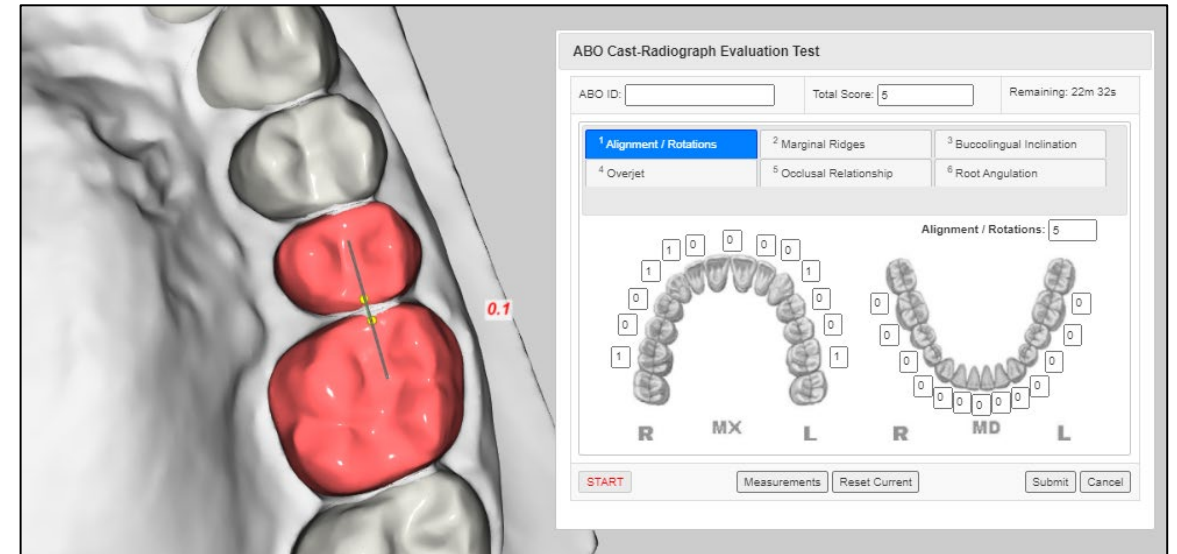


ABO Cast Radiograph-Evaluation (CR-E) Using Ortho Share 3D™-Online Web Viewer

Step # 12



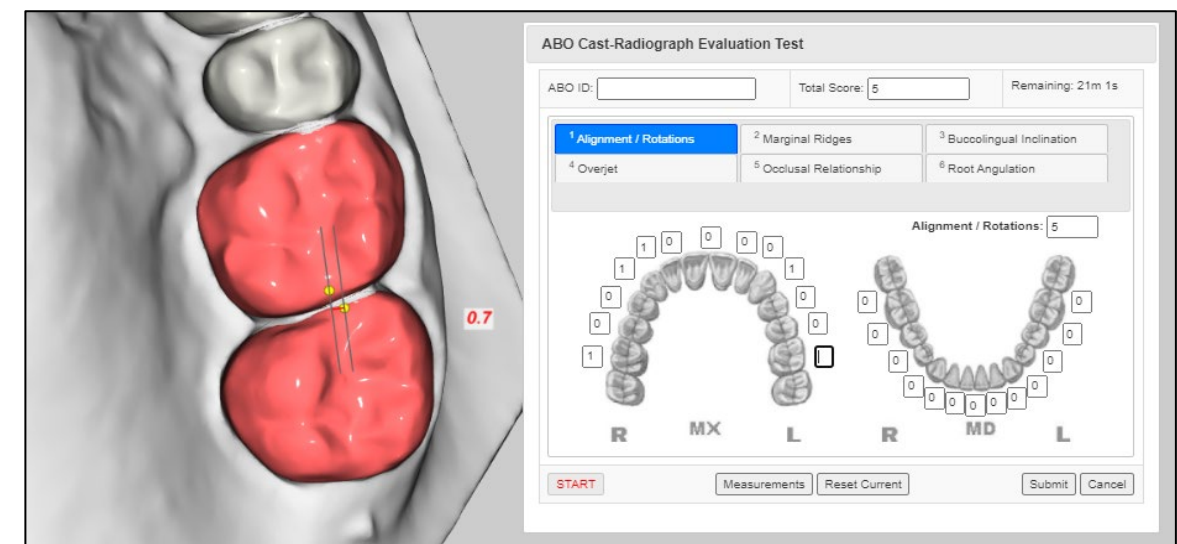
Step # 14



Step # 13

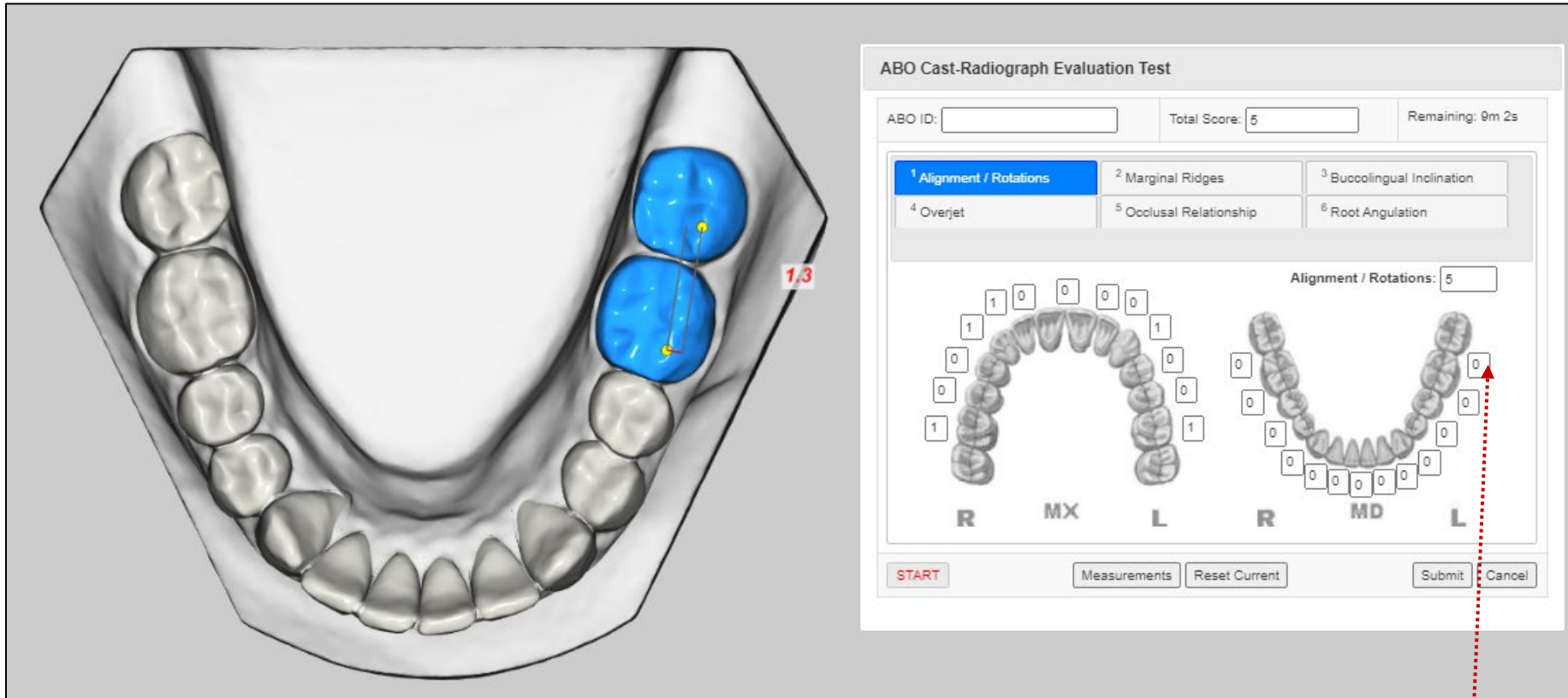


Step # 15



ABO Cast Radiograph-Evaluation (CR-E) Using Ortho Share 3D™-Online Web Viewer

Step # 16



1. Alignment of the mandibular left 2nd molar and 1st molar is 1.3 therefore a number two (2) is placed in the highlighted box.
2. When placing a value in this box it will activate the next assessment area.

ABO Cast Radiograph-Evaluation (CR-E) Using Ortho Share 3D™-Online Web Viewer

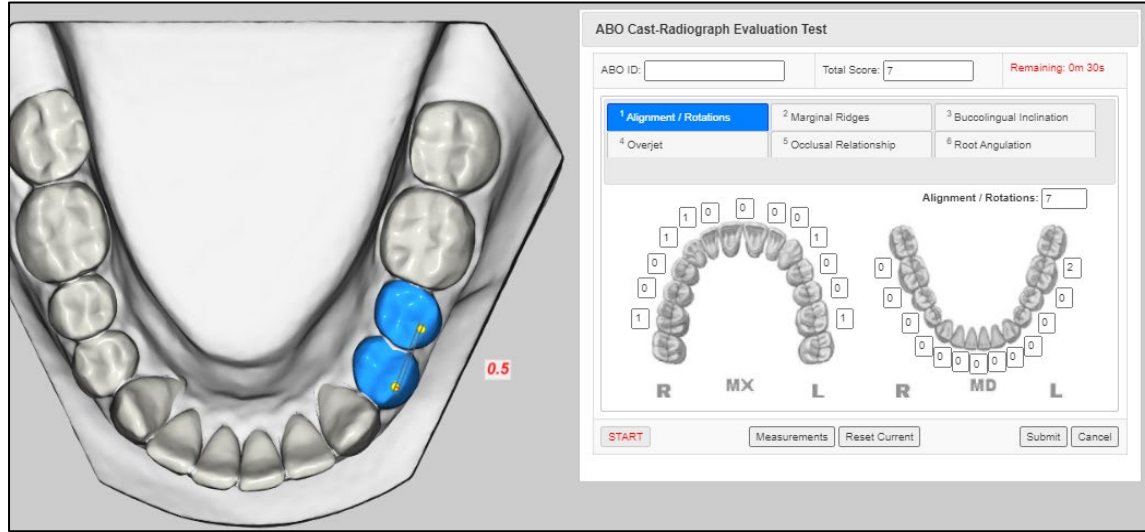
Step # 17

The image displays a 3D dental model of a mandible on the left and the ABO Cast-Radiograph Evaluation Test interface on the right. The 3D model shows the mandibular teeth with a blue highlight on the left 1st molar and 2nd premolar, and a red '0.2' value next to it. The ABO interface includes a title bar, input fields for ABO ID, Total Score (7), and Remaining time (5m 12s). A grid of assessment categories is shown, with 'Alignment / Rotations' selected. Below the grid, two dental arches (MX and MD) are displayed with numerical values in boxes. A red dotted arrow points from the 'Submit' button in the interface to the highlighted box in the MD arch.

1. Alignment of the mandibular left 1st molar and 2nd premolar is 0.2 therefore a number zero (0) is placed in the highlighted box.
2. When placing a value in this box it will activate the next assessment area.

ABO Cast Radiograph-Evaluation (CR-E) Using Ortho Share 3D™-Online Web Viewer

Step # 18



ABO Cast-Radiograph Evaluation Test

ABO ID: Total Score: 7 Remaining: 0m 30s

1 Alignment / Rotations 2 Marginal Ridges 3 Buccolingual Inclination
4 Overjet 5 Occlusal Relationship 6 Root Angulation

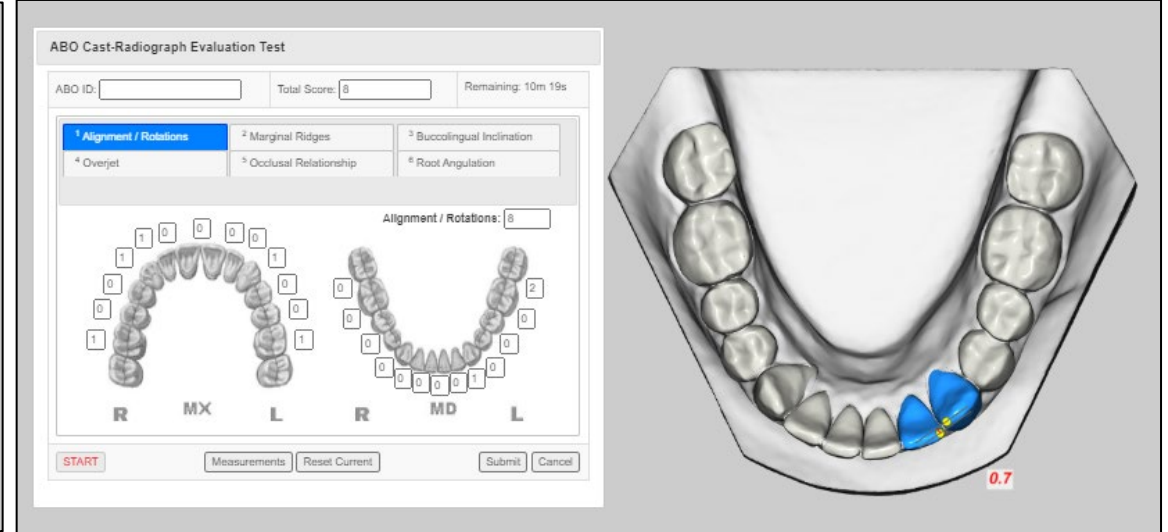
Alignment / Rotations: 7

R MX L R MD L

START Measurements Reset Current Submit Cancel

0.5

Step # 20



ABO Cast-Radiograph Evaluation Test

ABO ID: Total Score: 8 Remaining: 10m 19s

1 Alignment / Rotations 2 Marginal Ridges 3 Buccolingual Inclination
4 Overjet 5 Occlusal Relationship 6 Root Angulation

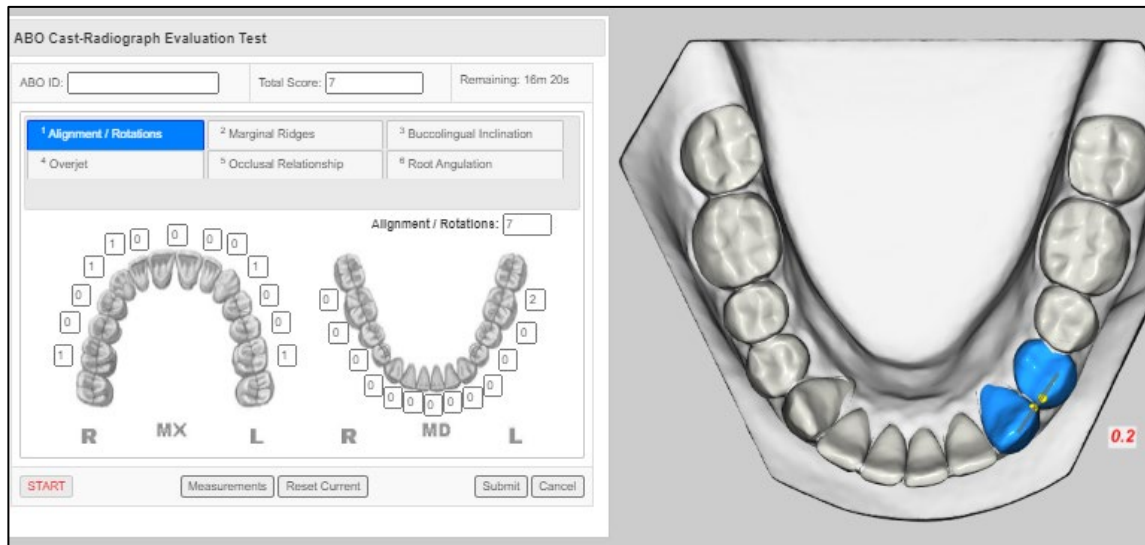
Alignment / Rotations: 8

R MX L R MD L

START Measurements Reset Current Submit Cancel

0.7

Step # 19



ABO Cast-Radiograph Evaluation Test

ABO ID: Total Score: 7 Remaining: 16m 20s

1 Alignment / Rotations 2 Marginal Ridges 3 Buccolingual Inclination
4 Overjet 5 Occlusal Relationship 6 Root Angulation

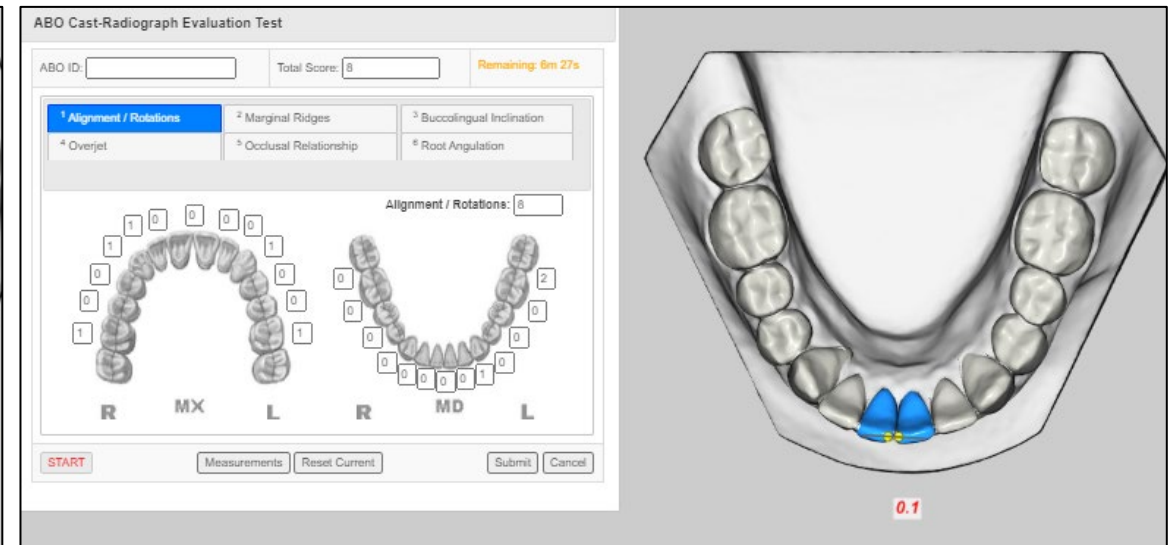
Alignment / Rotations: 7

R MX L R MD L

START Measurements Reset Current Submit Cancel

0.2

Step # 21



ABO Cast-Radiograph Evaluation Test

ABO ID: Total Score: 8 Remaining: 6m 27s

1 Alignment / Rotations 2 Marginal Ridges 3 Buccolingual Inclination
4 Overjet 5 Occlusal Relationship 6 Root Angulation

Alignment / Rotations: 8

R MX L R MD L

START Measurements Reset Current Submit Cancel

0.1

ABO Cast Radiograph-Evaluation (CR-E) Using Ortho Share 3D™-Online Web Viewer

Step # 22

ABO Cast-Radiograph Evaluation Test

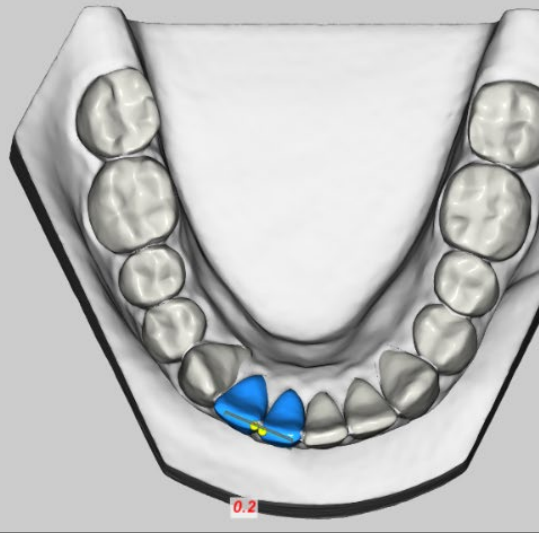
ABO ID: Total Score: 8 Remaining: 14m 4s

1 Alignment / Rotations	2 Marginal Ridges	3 Buccolingual Inclination
4 Overjet	5 Occlusal Relationship	6 Root Angulation

Alignment / Rotations: 8

R MX L R MD L

START Measurements Reset Current Submit Cancel



Step # 24

ABO Cast-Radiograph Evaluation Test

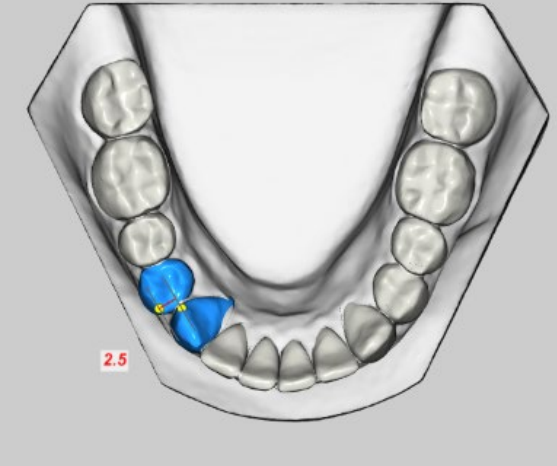
ABO ID: Total Score: 8 Remaining: 2m 55s

1 Alignment / Rotations	2 Marginal Ridges	3 Buccolingual Inclination
4 Overjet	5 Occlusal Relationship	6 Root Angulation

Alignment / Rotations: 8

R MX L R MD L

START Measurements Reset Current Submit Cancel



Step # 23

ABO Cast-Radiograph Evaluation Test

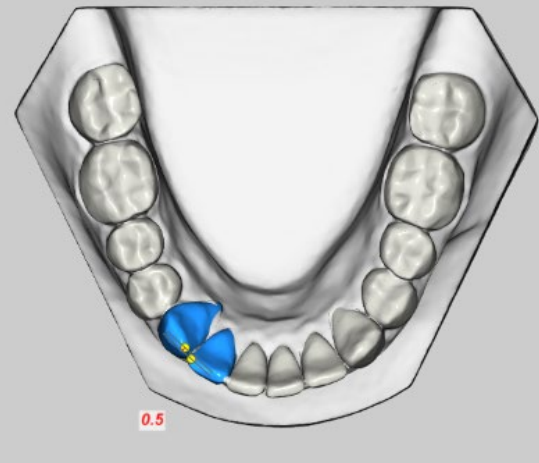
ABO ID: Total Score: 8 Remaining: 4m 9s

1 Alignment / Rotations	2 Marginal Ridges	3 Buccolingual Inclination
4 Overjet	5 Occlusal Relationship	6 Root Angulation

Alignment / Rotations: 8

R MX L R MD L

START Measurements Reset Current Submit Cancel



Step # 25

ABO Cast-Radiograph Evaluation Test

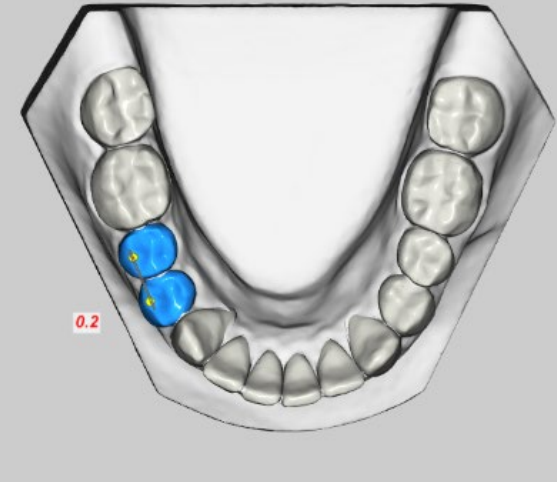
ABO ID: Total Score: 10 Remaining: 1m 52s

1 Alignment / Rotations	2 Marginal Ridges	3 Buccolingual Inclination
4 Overjet	5 Occlusal Relationship	6 Root Angulation

Alignment / Rotations: 10

R MX L R MD L

START Measurements Reset Current Submit Cancel



ABO Cast Radiograph-Evaluation (CR-E) Using Ortho Share 3D™-Online Web Viewer

Step # 26

Step # 27

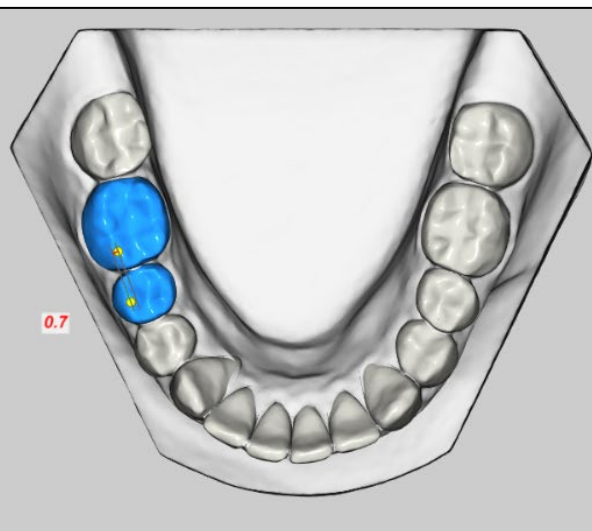
ABO Cast-Radiograph Evaluation Test

ABO ID: Total Score: 11 Remaining: 26m 42s

1 Alignment / Rotations	2 Marginal Ridges	3 Buccolingual Inclination
4 Overjet	5 Occlusal Relationship	6 Root Angulation

Alignment / Rotations: 11

START Measurements Reset Current Submit Cancel



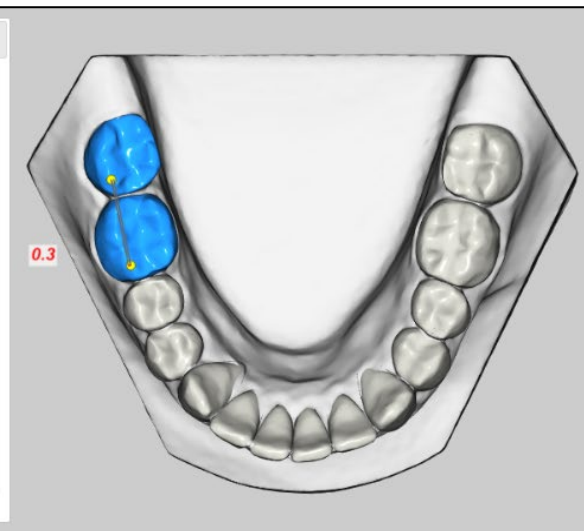
ABO Cast-Radiograph Evaluation Test

ABO ID: Total Score: 11 Remaining: 23m 34s

1 Alignment / Rotations	2 Marginal Ridges	3 Buccolingual Inclination
4 Overjet	5 Occlusal Relationship	6 Root Angulation

Alignment / Rotations: 11

START Measurements Reset Current Submit Cancel



ABO Cast-Radiograph Evaluation Test

ABO ID: JGrubb Total Score: 11 Remaining: 20m 21s

1 Alignment / Rotations	2 Marginal Ridges	3 Buccolingual Inclination
4 Overjet	5 Occlusal Relationship	6 Root Angulation

Alignment / Rotations: 11

START Measurements Reset Current Submit Cancel

An examinee may go back and check each of the alignment numbers and change them if necessary after completing this area of analysis or at the completion of the total evaluation.

ABO Cast Radiograph-Evaluation (CR-E) Using Ortho Share 3D™-Online Web Viewer

Mandibular Alignment

ABO Cast-Radiograph Evaluation Test

ABO ID: Total Score: 11 Remaining: 23m 34s

1 Alignment / Rotations 2 Marginal Ridges 3 Buccolingual Inclination
4 Overjet 5 Occlusal Relationship 6 Root Angulation

Alignment / Rotations: 11

R MX L R MD L

START Measurements Reset Current Submit Cancel

Step # 1

When this button is activated by adding 0 points, the mandibular alignment will transfer to the next assessment **Marginal Ridges**

Marginal Ridges

ABO Cast-Radiograph Evaluation Test

ABO ID: Total Score: 11 Remaining: 24m 38s

1 Alignment / Rotations **2 Marginal Ridges** 3 Buccolingual Inclination
4 Overjet 5 Occlusal Relationship 6 Root Angulation

Marginal Ridges: 11

R MX L R MD L

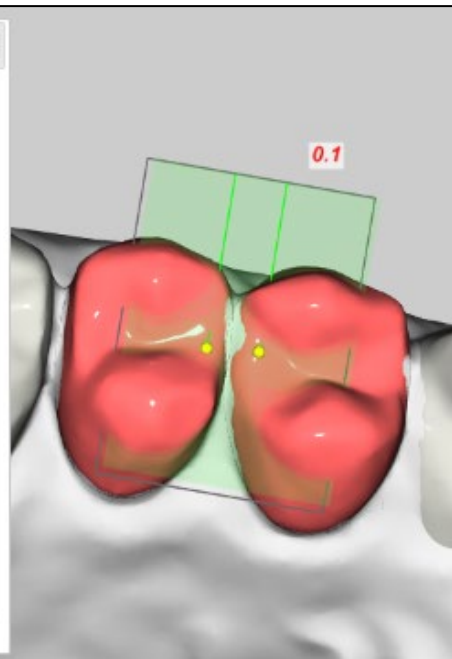
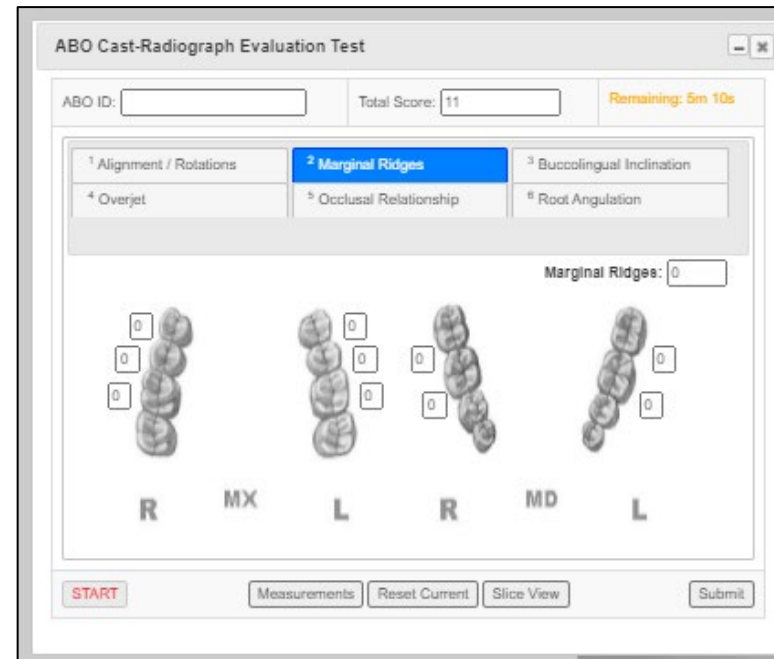
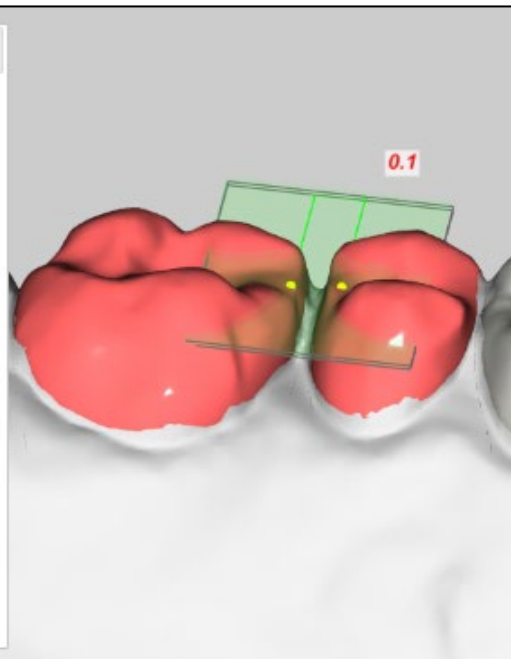
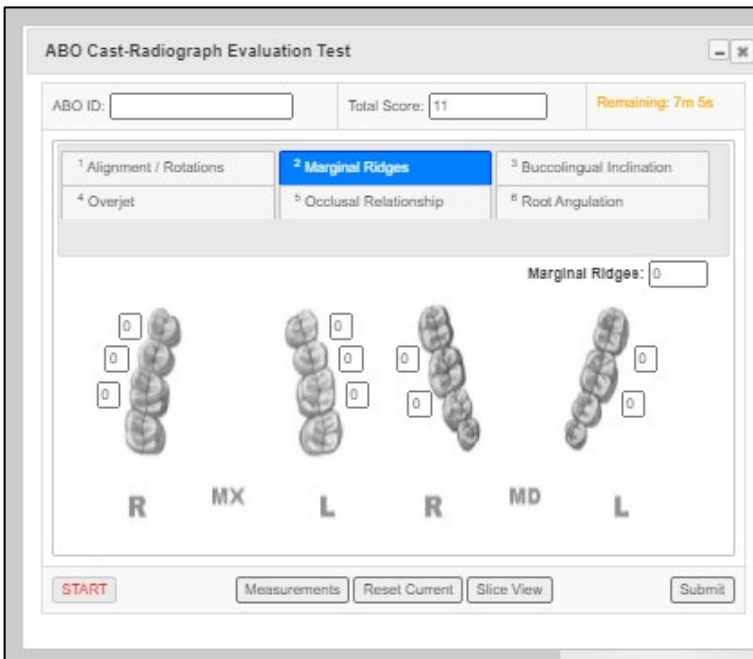
START Measurements Reset Current Slice View Submit

ABO Cast Radiograph-Evaluation (CR-E) Using Ortho Share 3D™-Online Web Viewer

Step # 2

Marginal Ridges

Step # 3

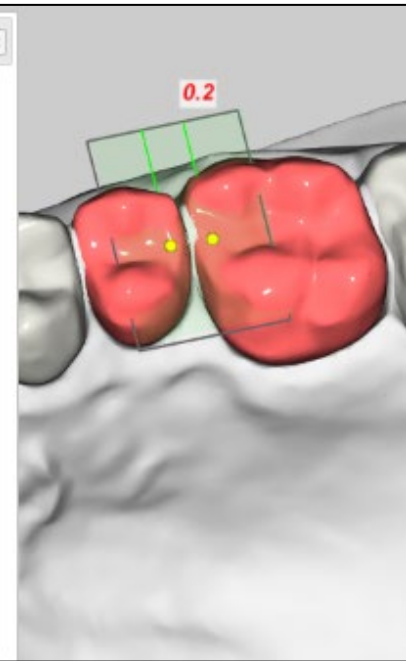
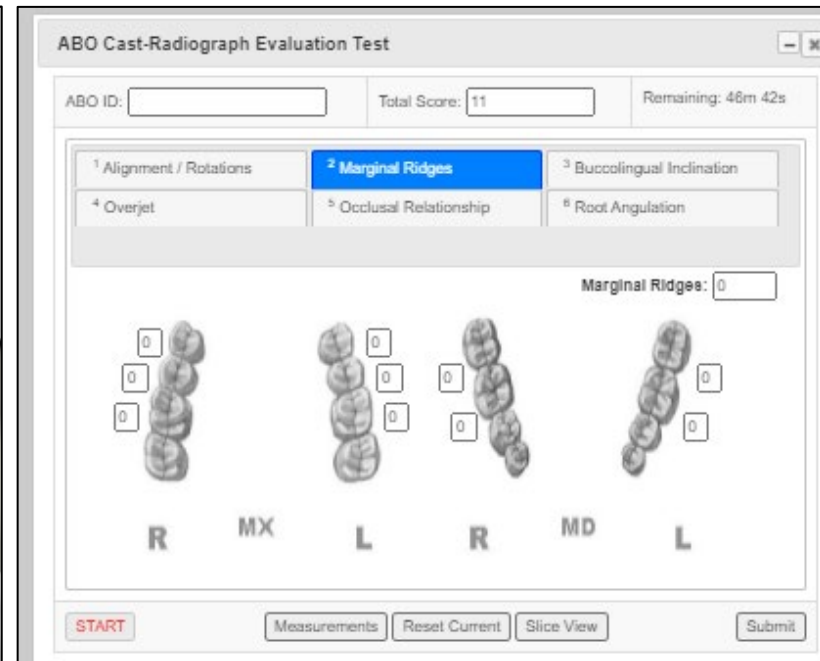
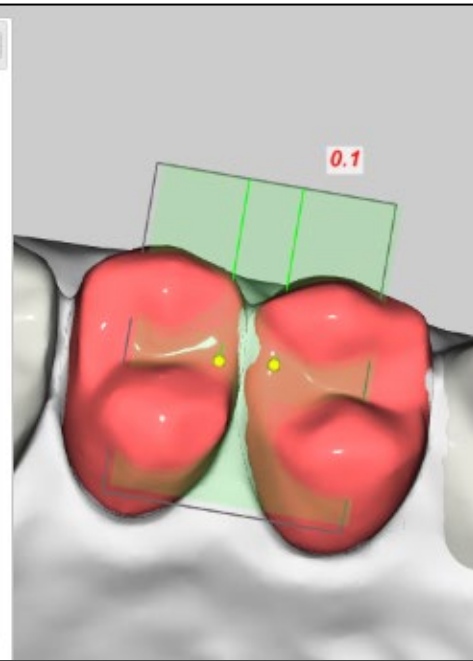
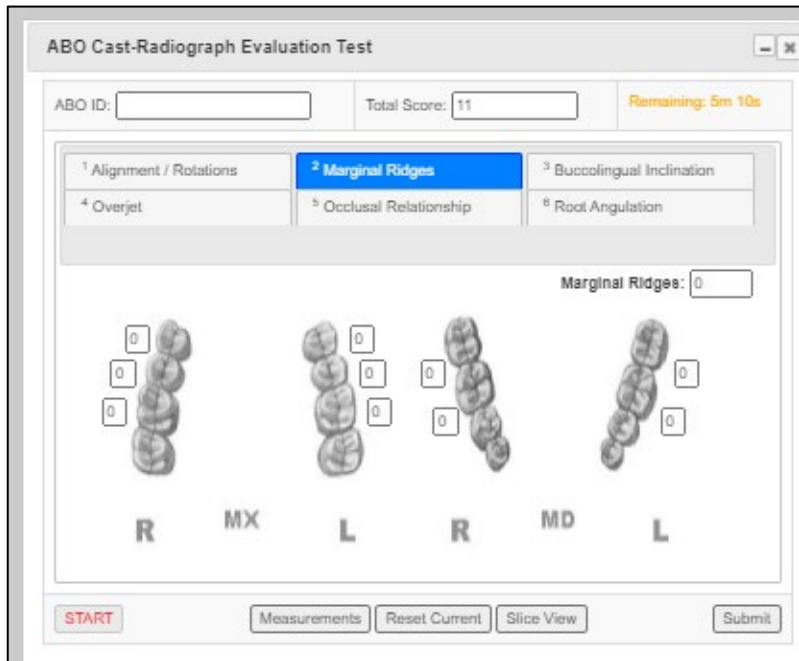


ABO Cast Radiograph-Evaluation (CR-E) Using Ortho Share 3D™-Online Web Viewer

Step # 4

Marginal Ridges

Step # 5

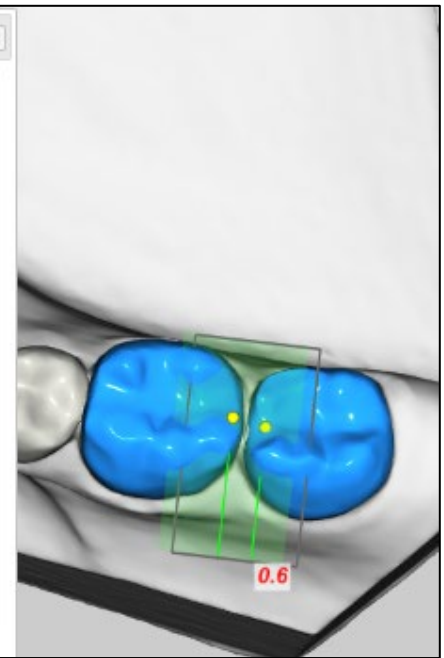
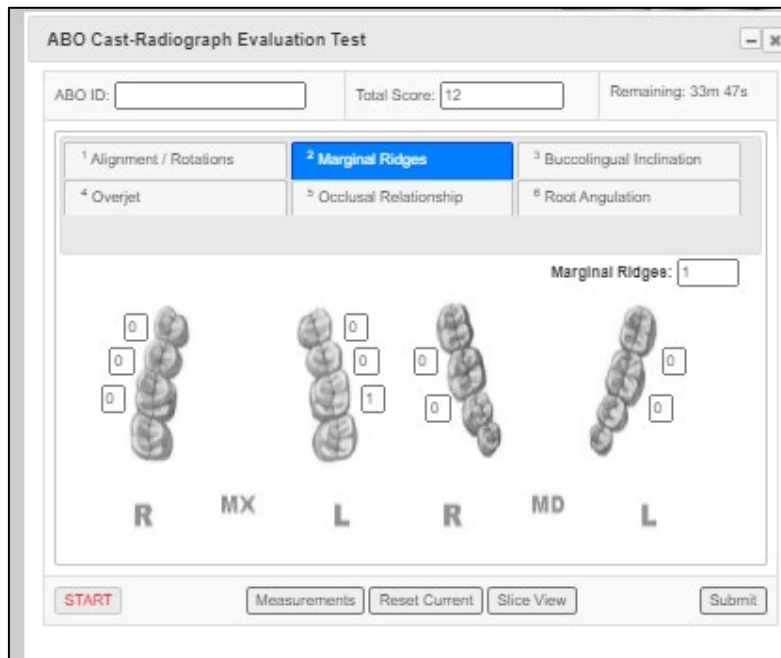
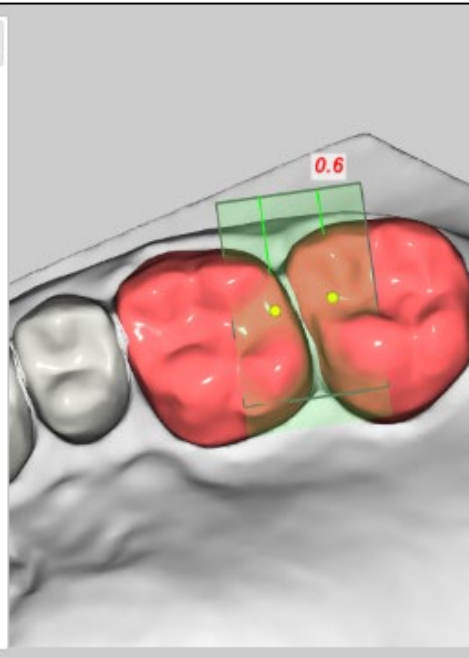
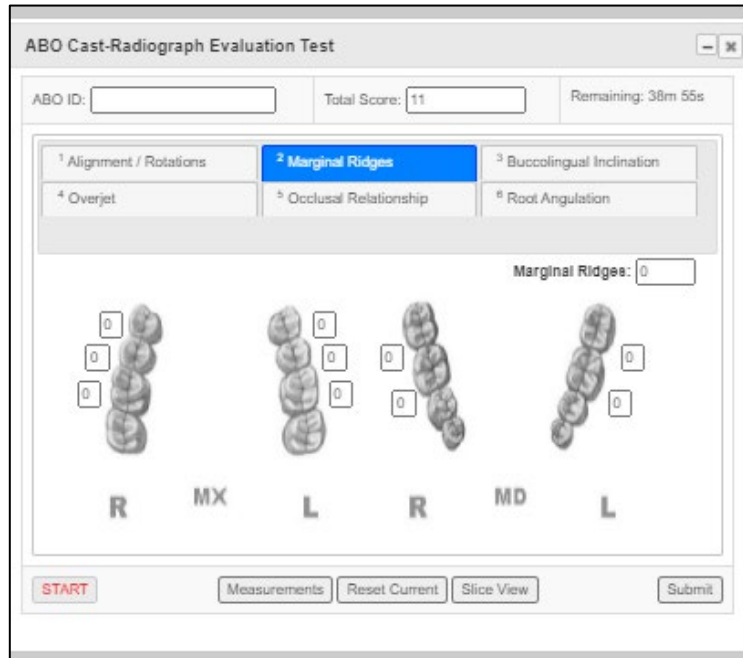


ABO Cast Radiograph-Evaluation (CR-E) Using Ortho Share 3D^(TM)-Online Web Viewer

Step # 6

Marginal Ridges

Step # 7



ABO Cast Radiograph-Evaluation (CR-E) Using Ortho Share 3D™-Online Web Viewer

Step # 8

Marginal Ridges

Step # 9

ABO Cast-Radiograph Evaluation Test

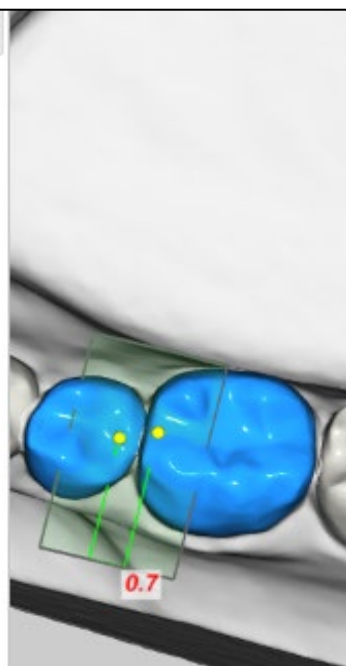
ABO ID: Total Score: Remaining: 28m 37s

¹ Alignment / Rotations	² Marginal Ridges	³ Buccolingual Inclination
⁴ Overjet	⁵ Occlusal Relationship	⁶ Root Angulation

Marginal Ridges:

R MX L R MD L

START Measurements Reset Current Slice View Submit



ABO Cast-Radiograph Evaluation Test

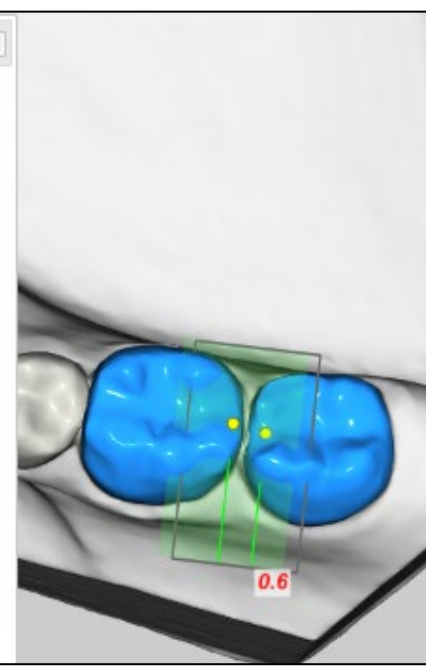
ABO ID: Total Score: Remaining: 33m 47s

¹ Alignment / Rotations	² Marginal Ridges	³ Buccolingual Inclination
⁴ Overjet	⁵ Occlusal Relationship	⁶ Root Angulation

Marginal Ridges:

R MX L R MD L

START Measurements Reset Current Slice View Submit



ABO Cast Radiograph-Evaluation (CR-E) Using Ortho Share 3D™-Online Web Viewer

Step # 10

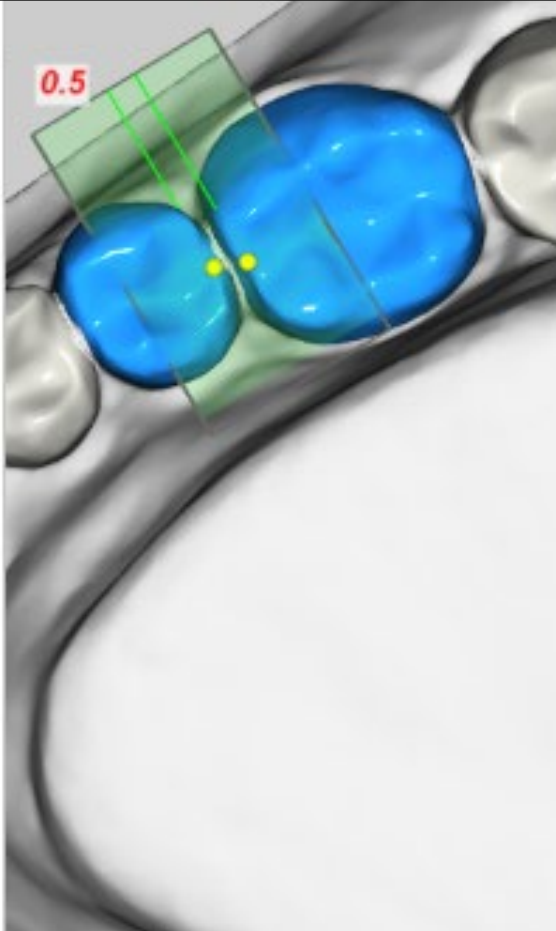
Marginal Ridges

ABO Cast-Radiograph Evaluation Test

ABO ID: Total Score: 14 Remaining: 23m 42s

¹ Alignment / Rotations	² Marginal Ridges	³ Buccolingual Inclination
⁴ Overjet	⁵ Occlusal Relationship	⁶ Root Angulation

Marginal Ridges:



R MX L R MD L

START Measurements Reset Current Slice View Submit

ABO Cast Radiograph-Evaluation (CR-E) Using Ortho Share 3D™-Online Web Viewer

Step # 1

Maxillary Buccolingual Inclination

Step # 2

ABO Cast-Radiograph Evaluation Test

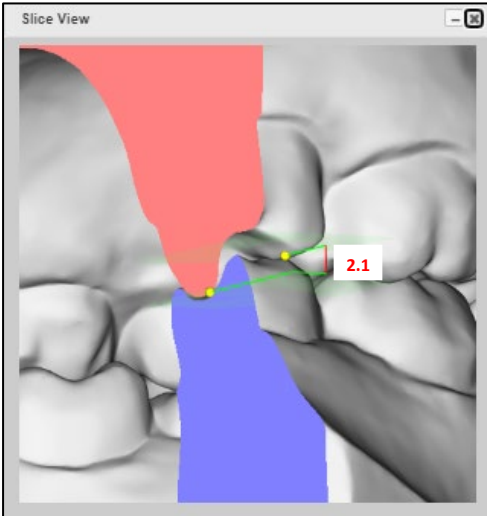
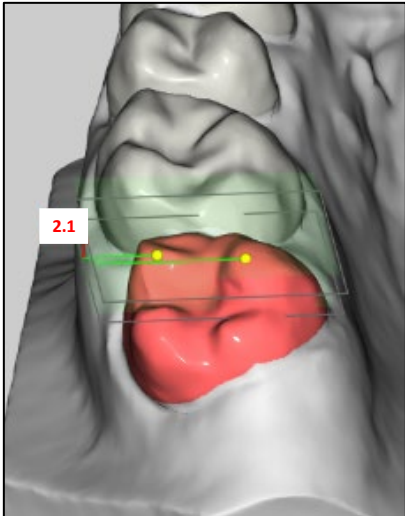
ABO ID: Total Score: 14 Remaining: 55m 30s

1 Alignment / Rotations 2 Marginal Ridges 3 Buccolingual Inclination
4 Overjet 5 Occlusal Relationship 6 Root Angulation

Buccolingual Inclination: 0

R MX L R MD L

START Measurements Reset Current Slice View Submit



ABO Cast-Radiograph Evaluation Test

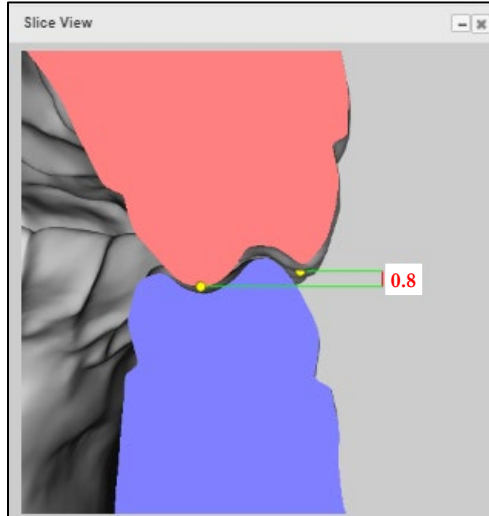
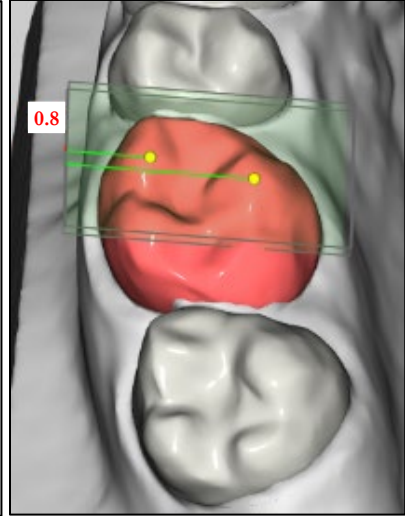
ABO ID: Total Score: 16 Remaining: 29m 44s

1 Alignment / Rotations 2 Marginal Ridges 3 Buccolingual Inclination
4 Overjet 5 Occlusal Relationship 6 Root Angulation

Buccolingual Inclination: 2

R MX L R MD L

START Measurements Reset Current Slice View Submit

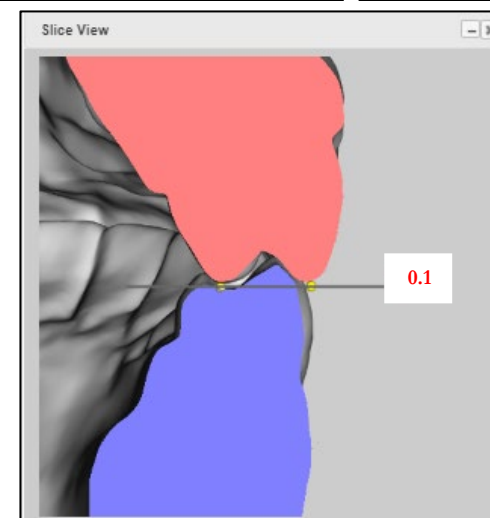
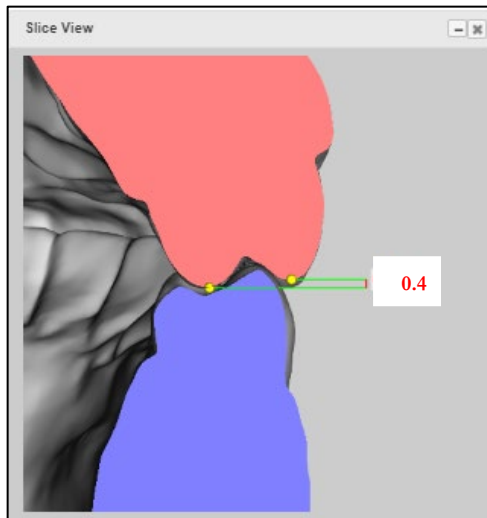
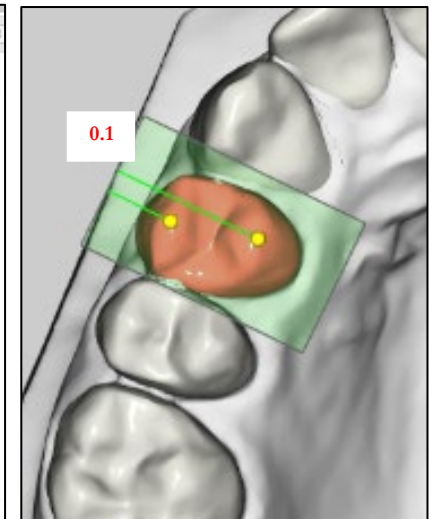
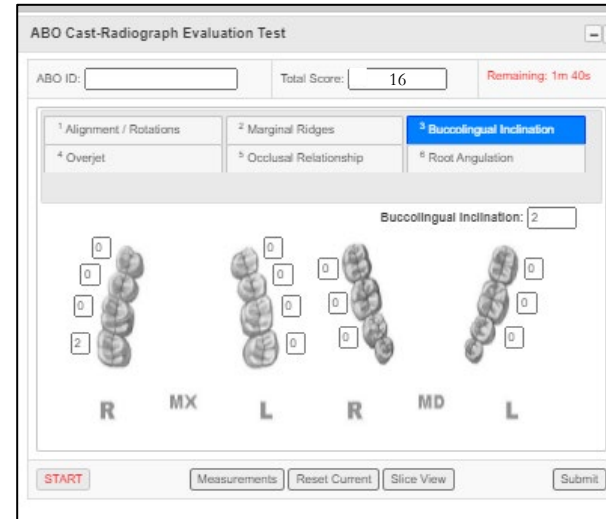
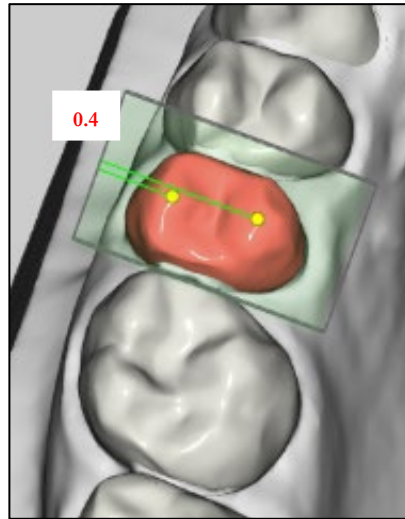
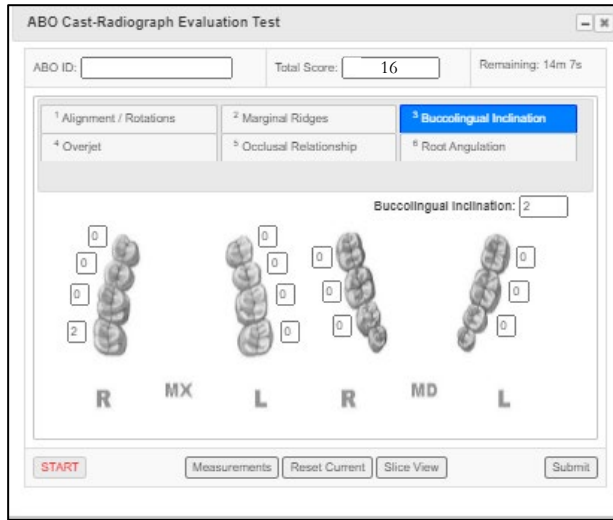


ABO Cast Radiograph-Evaluation (CR-E) Using Ortho Share 3D™-Online Web Viewer

Step # 3

Maxillary Buccolingual Inclination

Step # 4

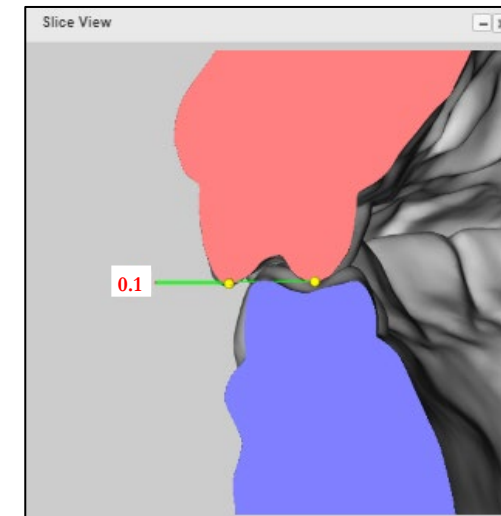
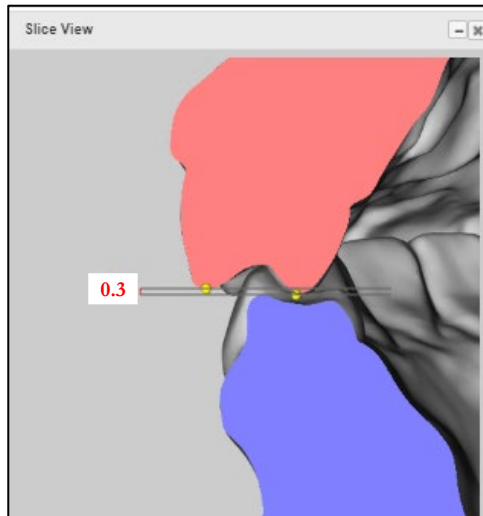
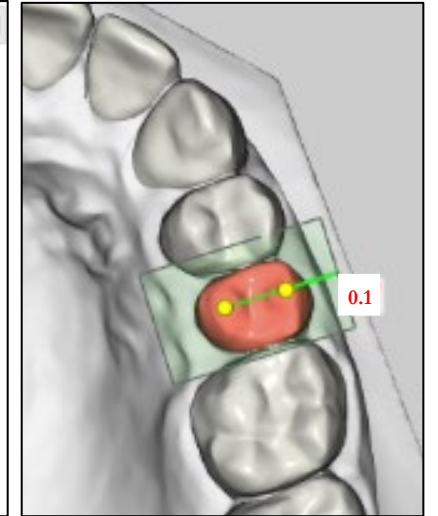
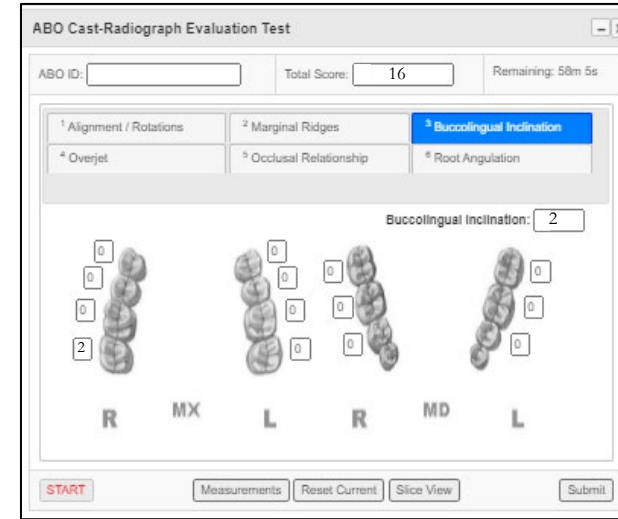
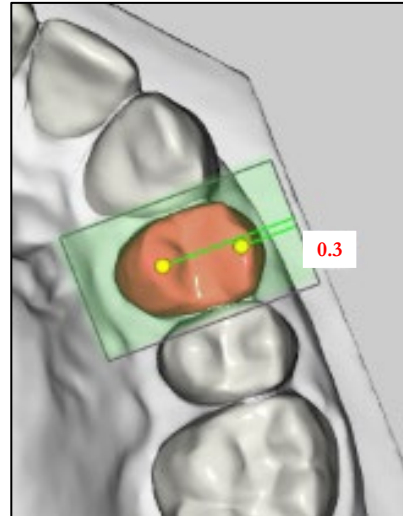
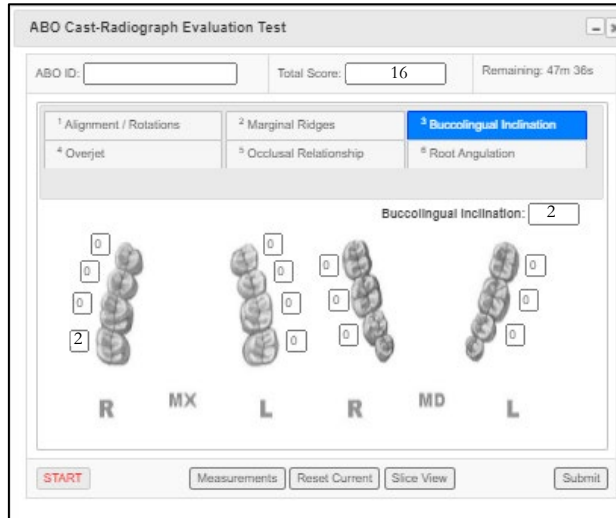


ABO Cast Radiograph-Evaluation (CR-E) Using Ortho Share 3D™-Online Web Viewer

Step # 5

Maxillary Buccolingual Inclination

Step # 6

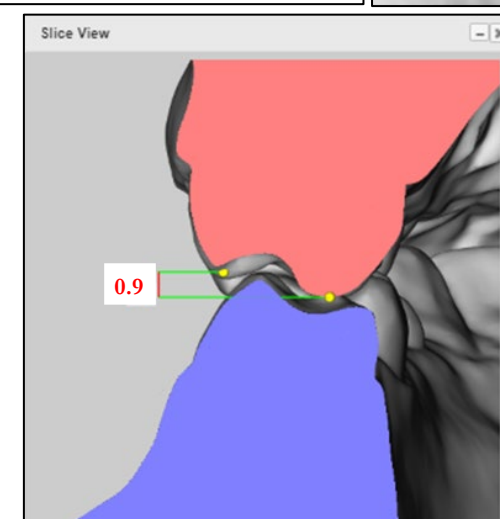
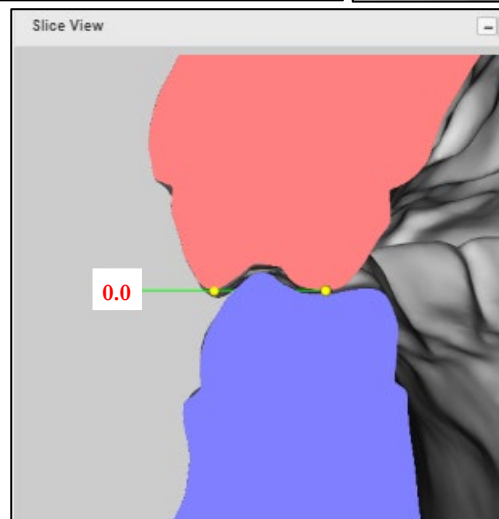
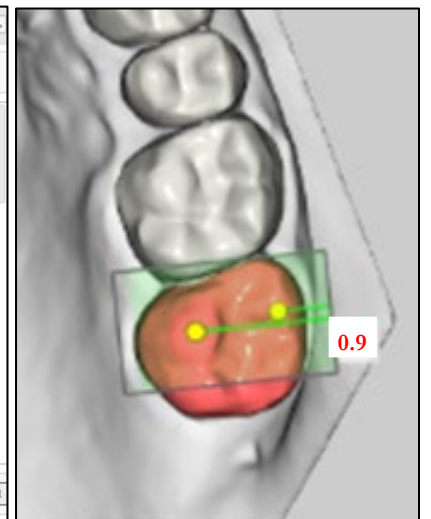
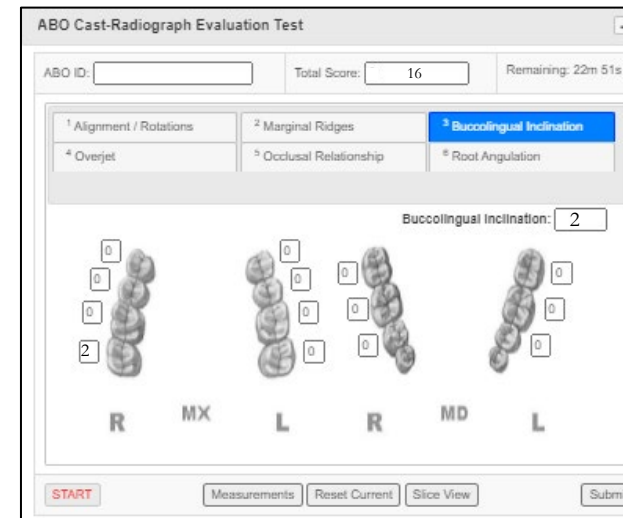
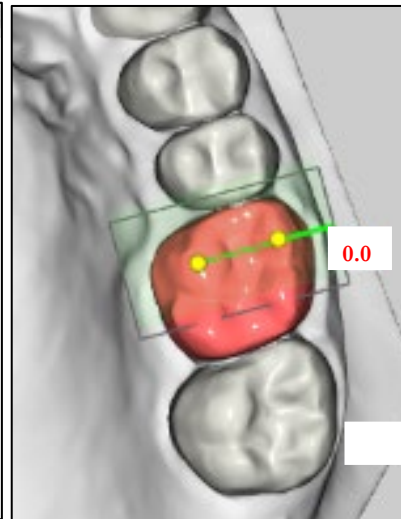
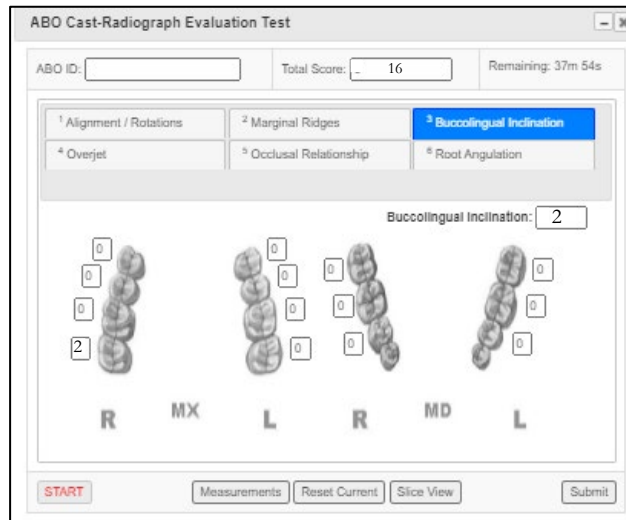


ABO Cast Radiograph-Evaluation (CR-E) Using Ortho Share 3D™-Online Web Viewer

Step # 7

Maxillary Buccolingual Inclination

Step # 8

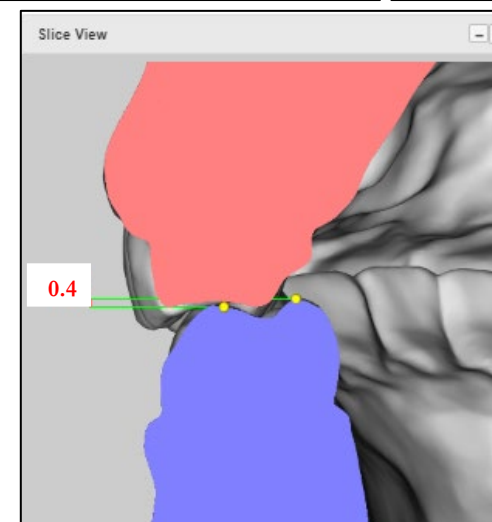
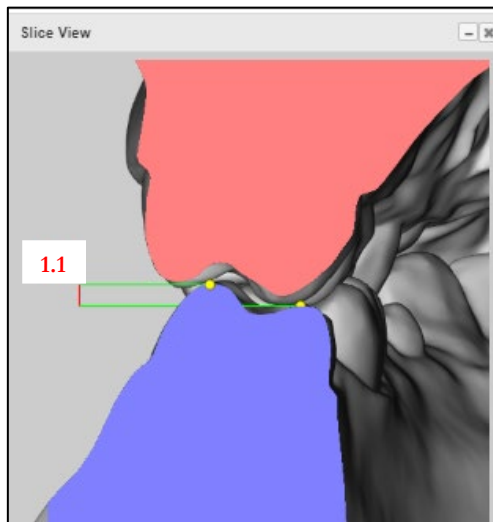
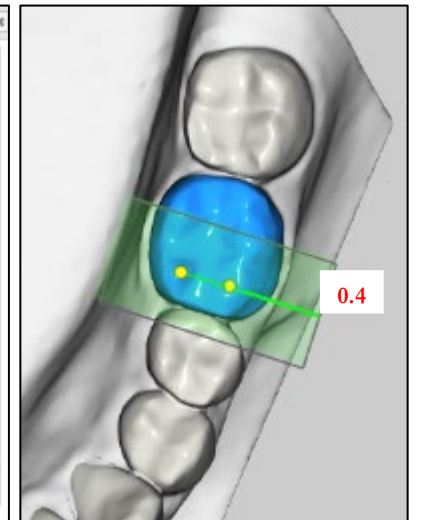
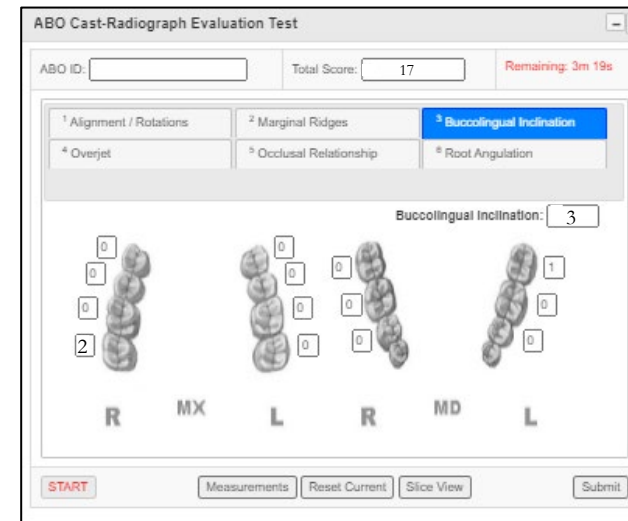
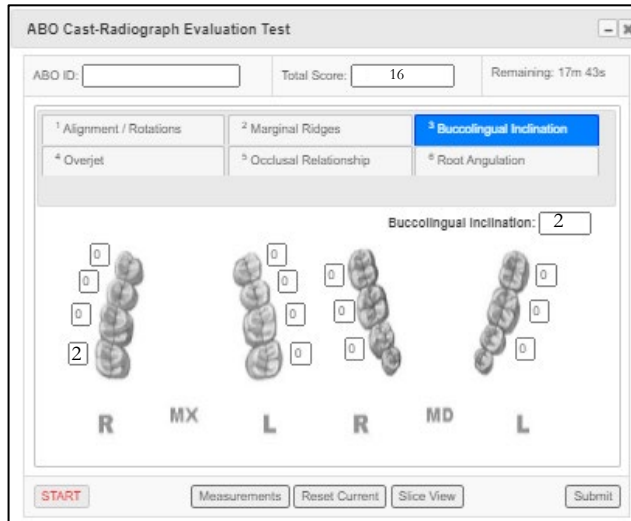


ABO Cast Radiograph-Evaluation (CR-E) Using Ortho Share 3D™-Online Web Viewer

Step # 9

Mandibular Buccolingual Inclination

Step # 10

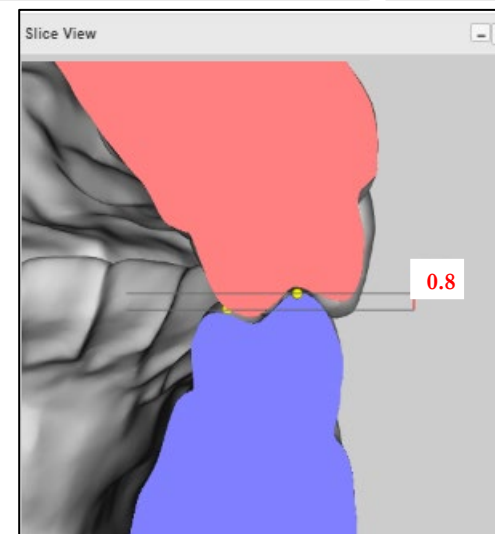
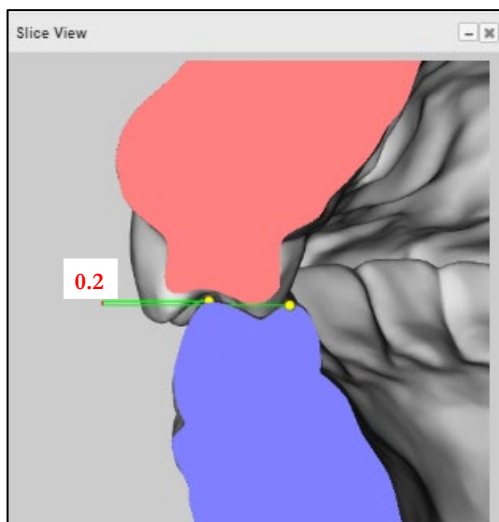
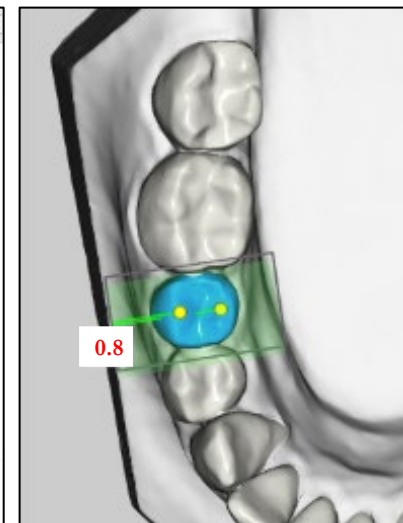
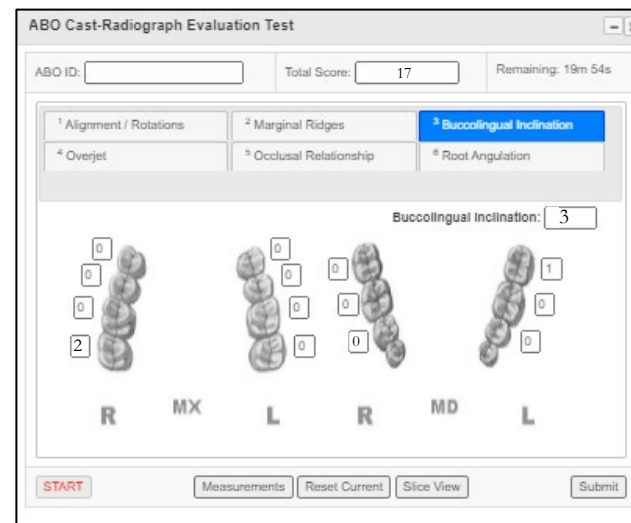
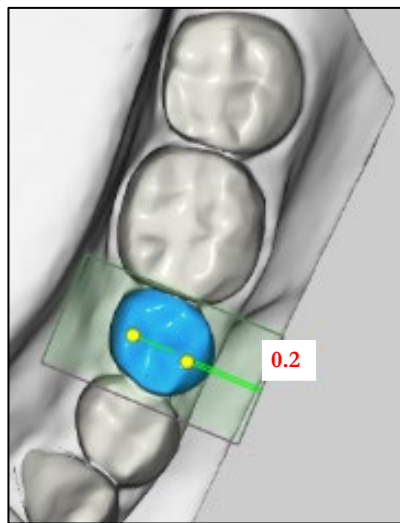
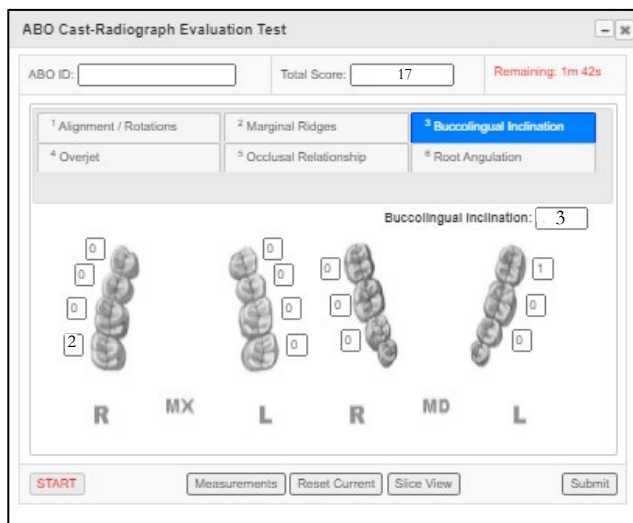


ABO Cast Radiograph-Evaluation (CR-E) Using Ortho Share 3D™-Online Web Viewer

Step # 11

Mandibular Buccolingual Inclination

Step # 12

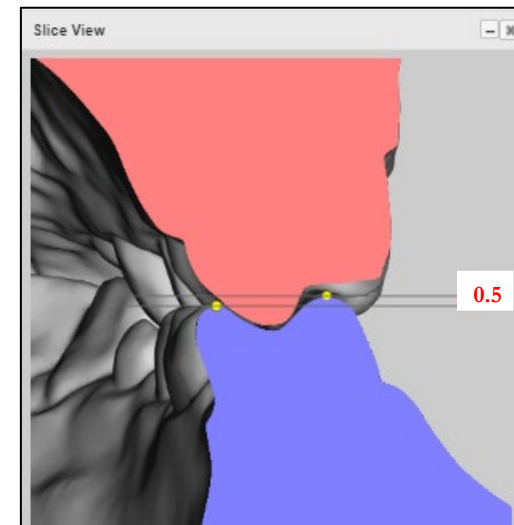
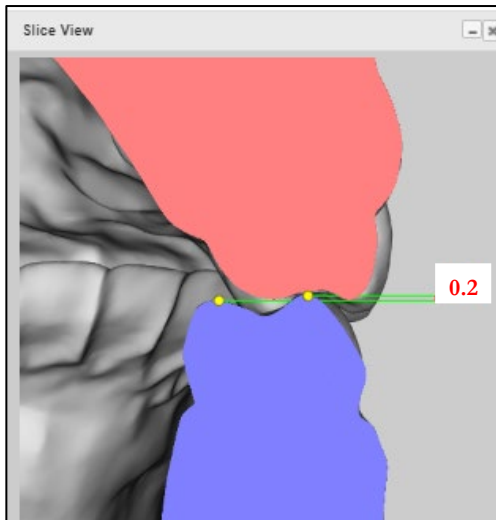
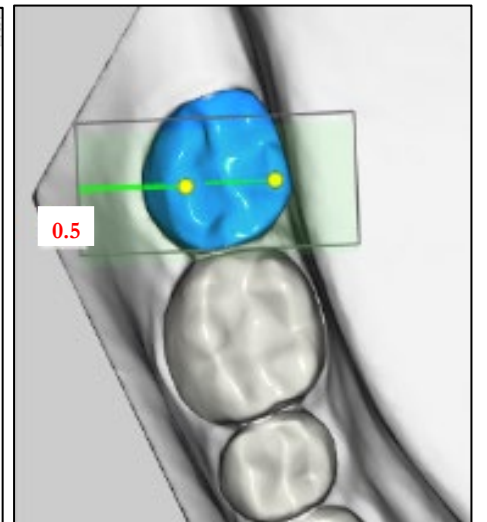
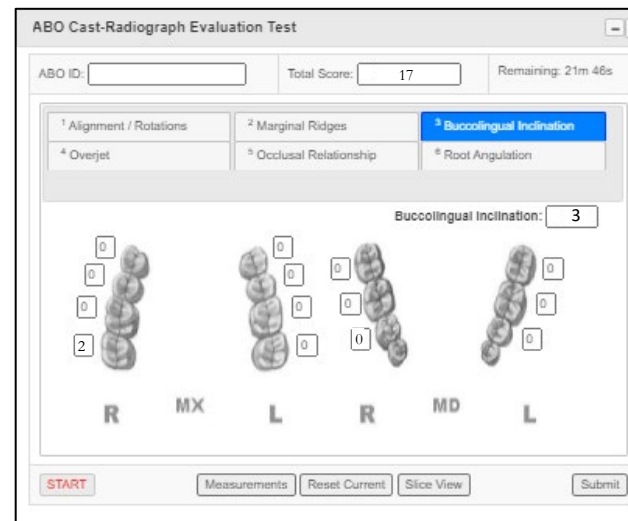
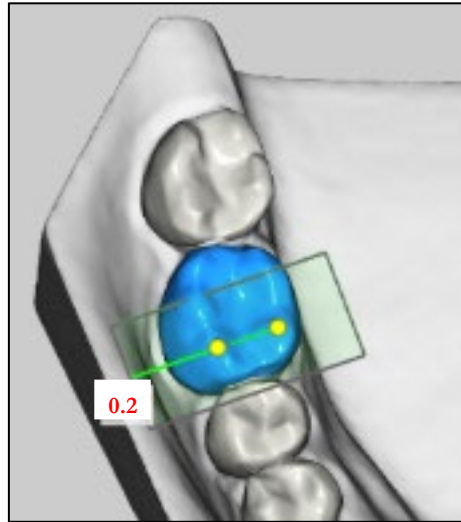
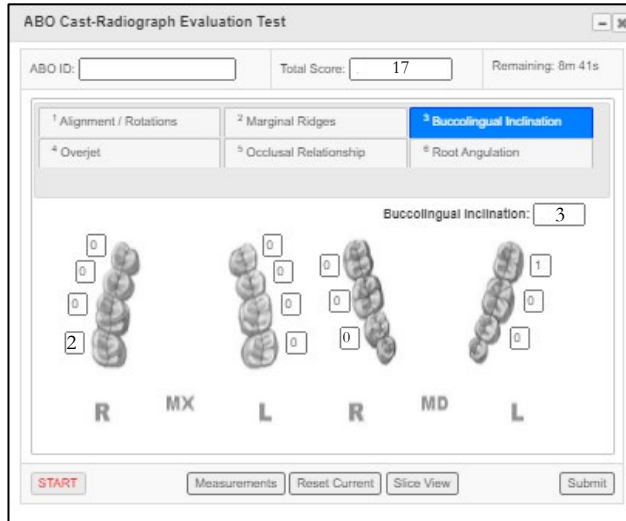


ABO Cast Radiograph-Evaluation (CR-E) Using Ortho Share 3D™-Online Web Viewer

Step # 13

Mandibular Buccolingual Inclination

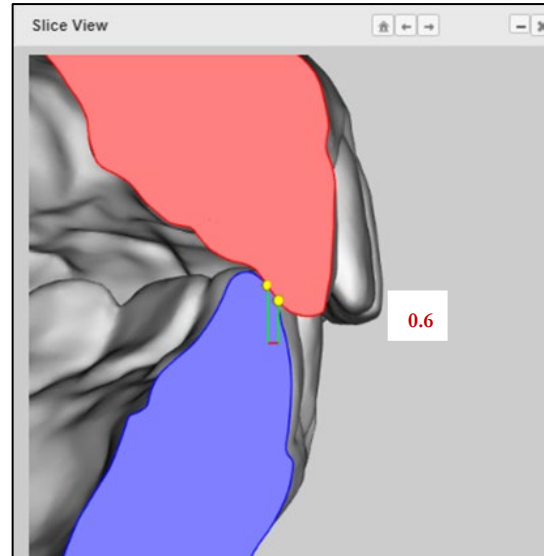
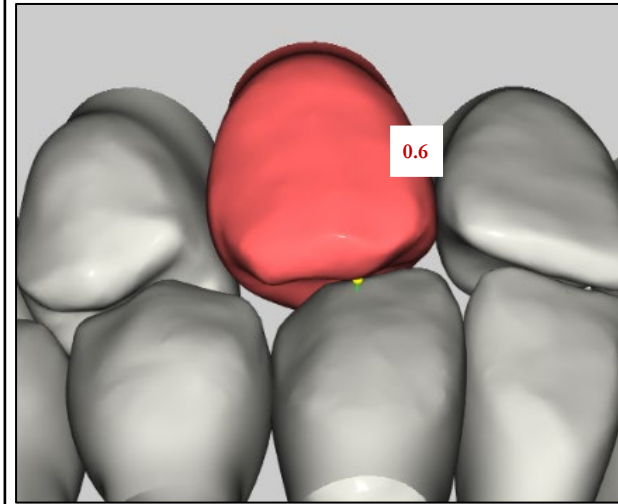
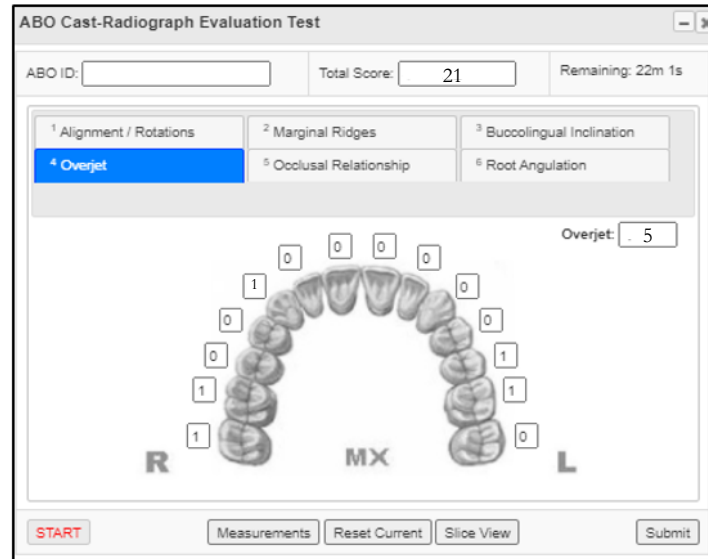
Step # 14



ABO Cast Radiograph-Evaluation (CR-E) Using Ortho Share 3D^(TM)-Online Web Viewer

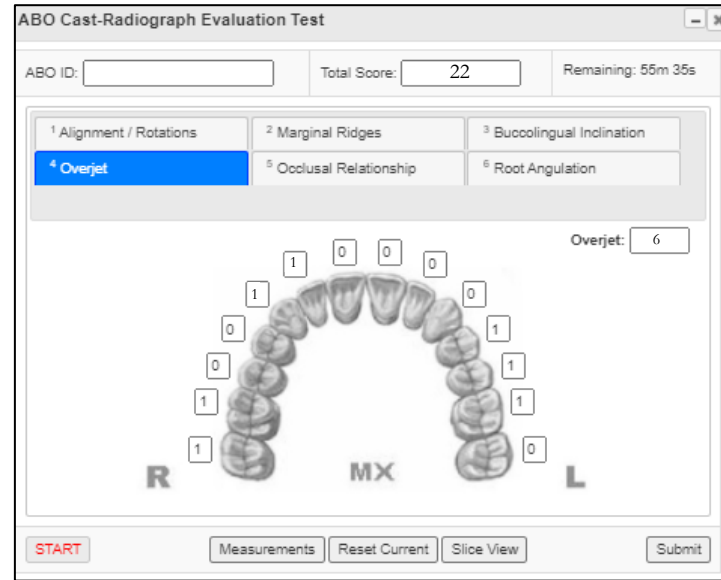
Anterior Overjet

Step # 1

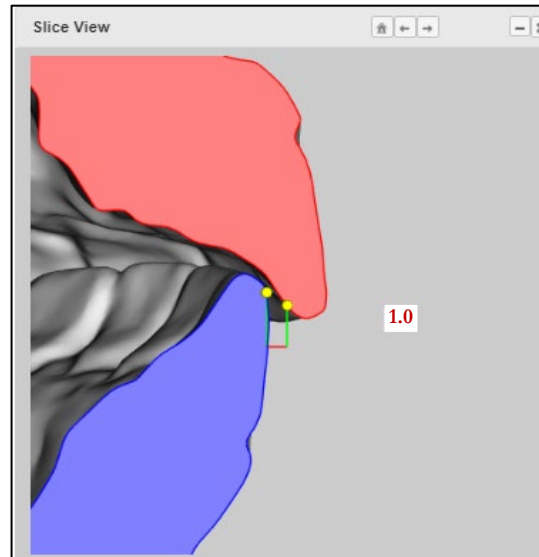
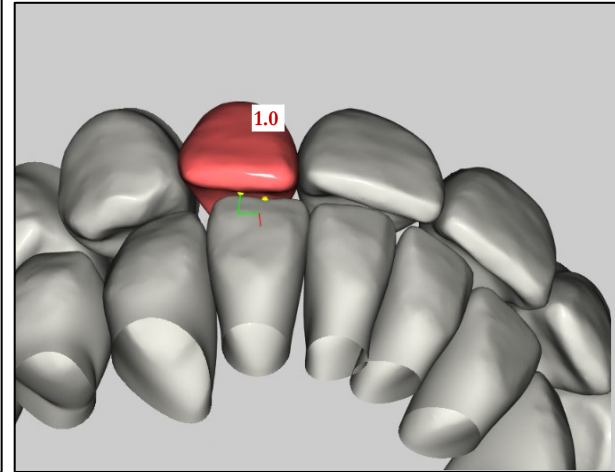


ABO Cast Radiograph-Evaluation (CR-E) Using Ortho Share 3D™-Online Web Viewer

Step # 2

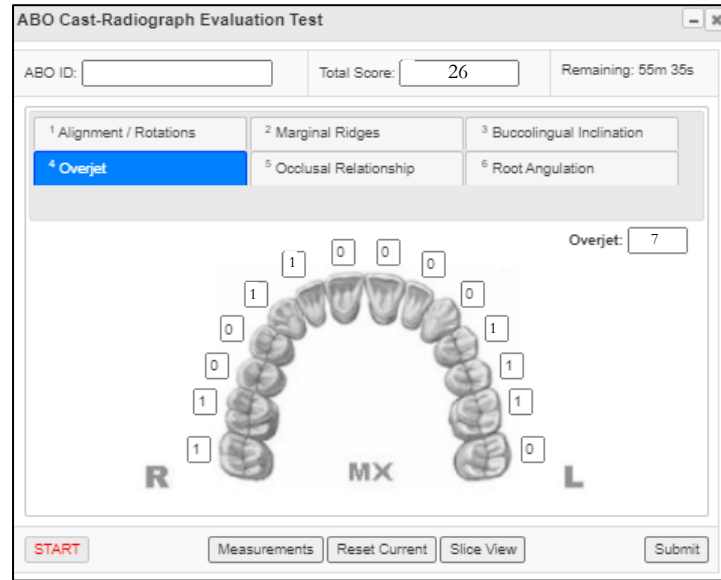


Anterior Overjet

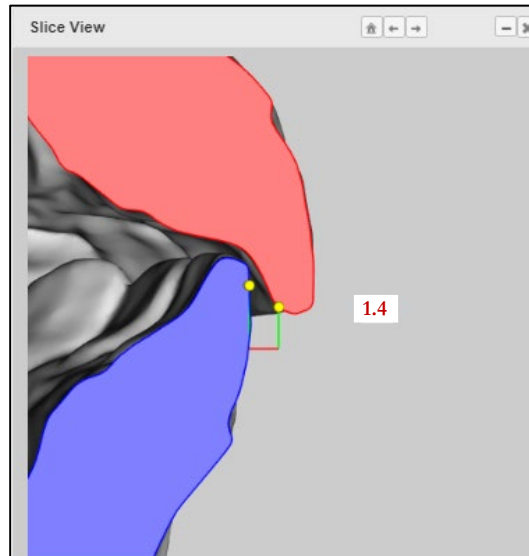
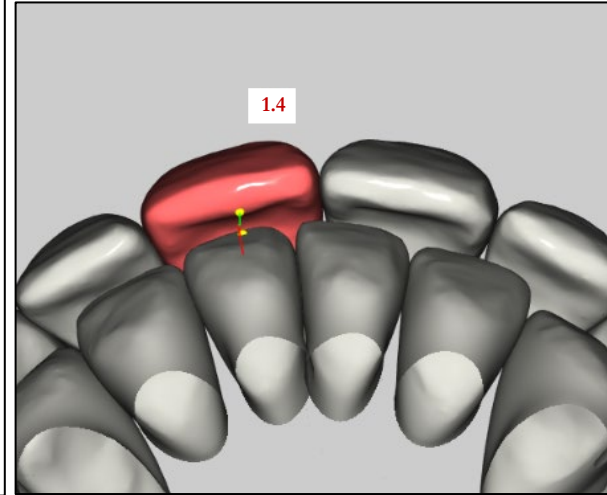


ABO Cast Radiograph-Evaluation (CR-E) Using Ortho Share 3D™-Online Web Viewer

Step # 3

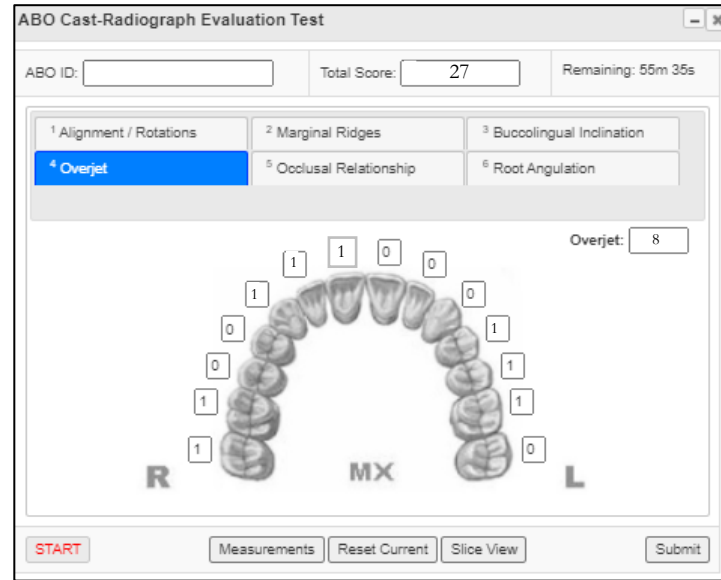


Anterior Overjet

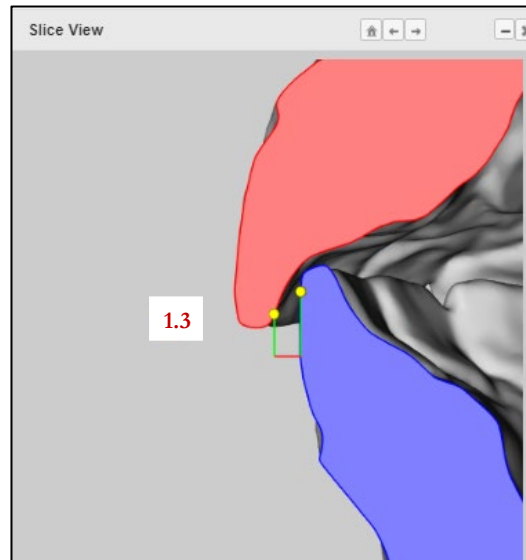
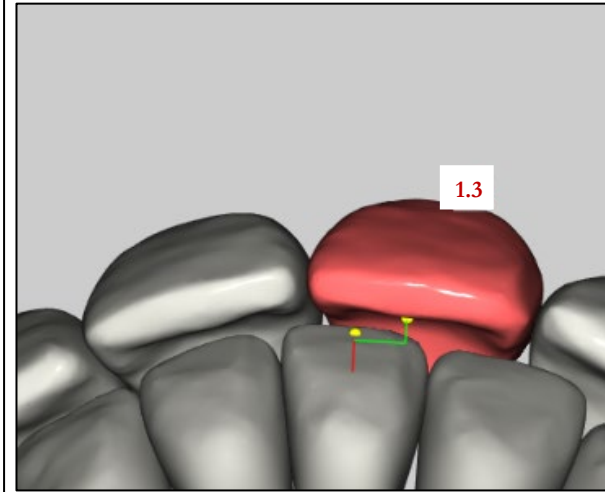


ABO Cast Radiograph-Evaluation (CR-E) Using Ortho Share 3D™-Online Web Viewer

Step # 4

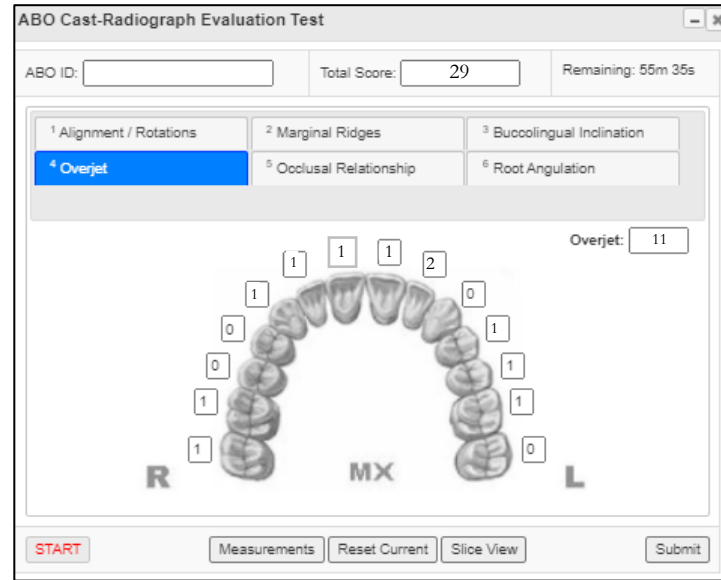


Anterior Overjet

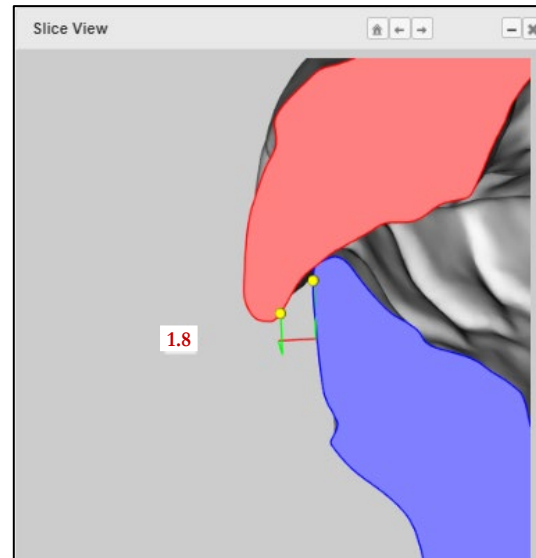
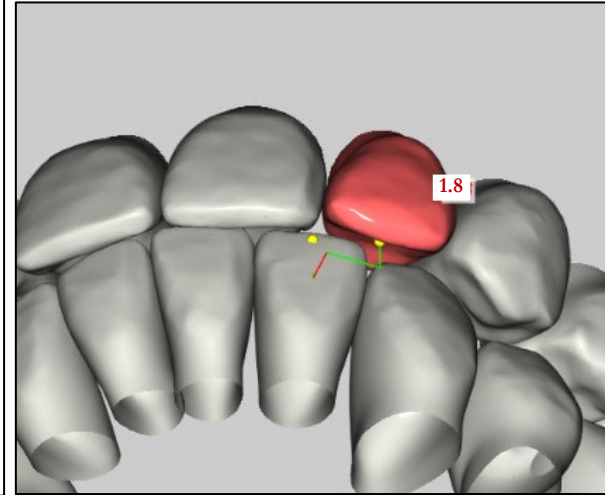


ABO Cast Radiograph-Evaluation (CR-E) Using Ortho Share 3D™-Online Web Viewer

Step # 5

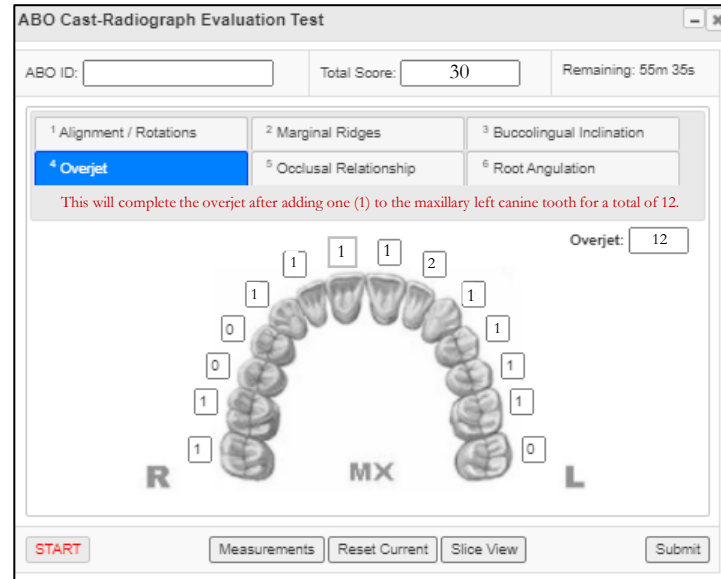


Anterior Overjet

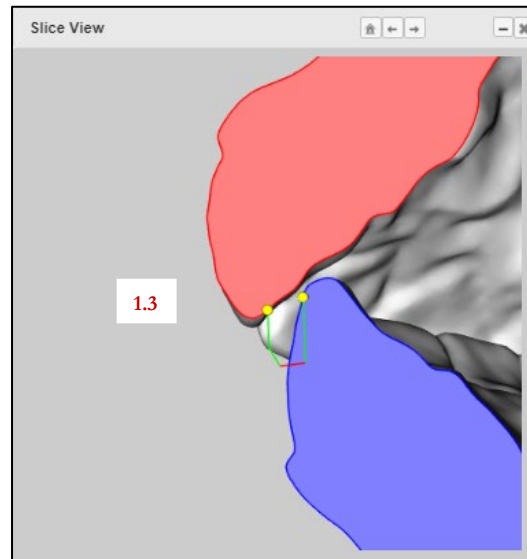
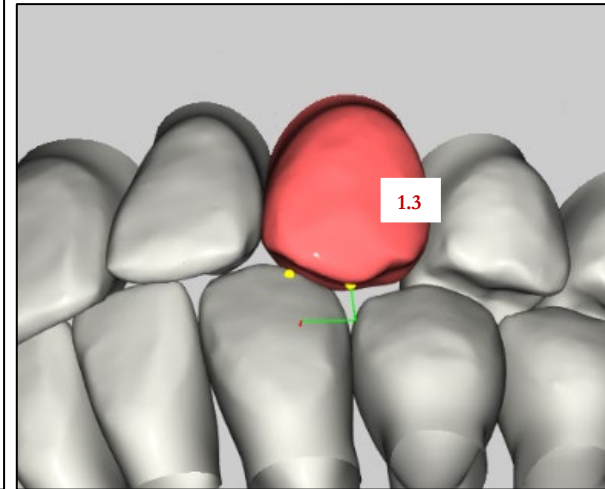


ABO Cast Radiograph-Evaluation (CR-E) Using Ortho Share 3D™-Online Web Viewer

Step # 6



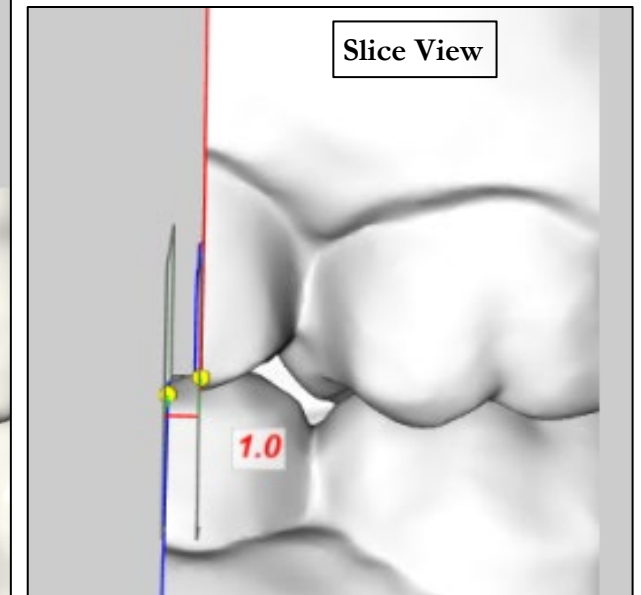
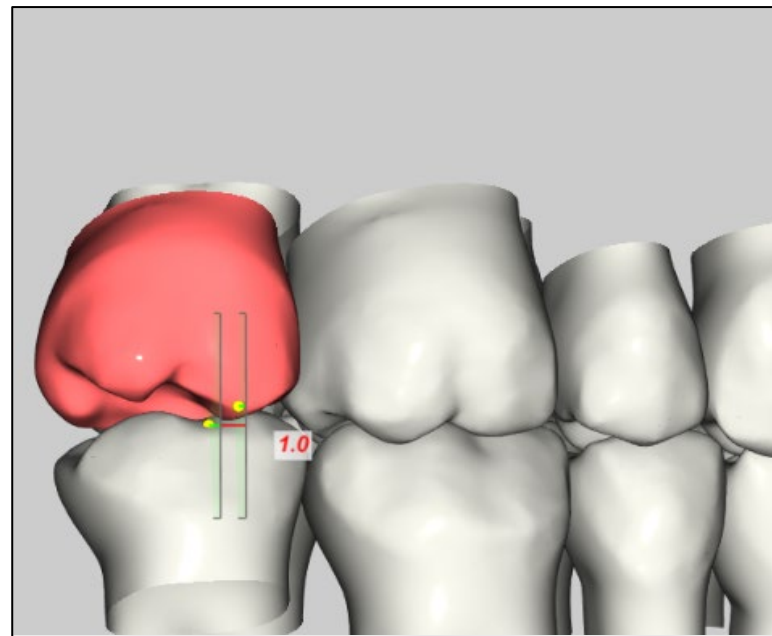
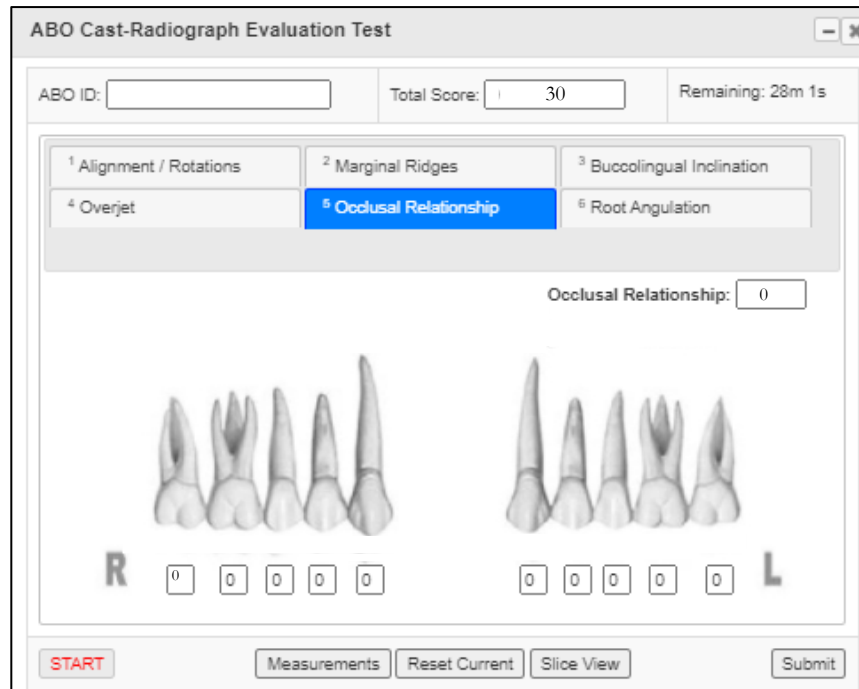
Anterior Overjet



ABO Cast Radiograph-Evaluation (CR-E) Using Ortho Share 3D^(TM)-Online Web Viewer

Occlusal Relationship

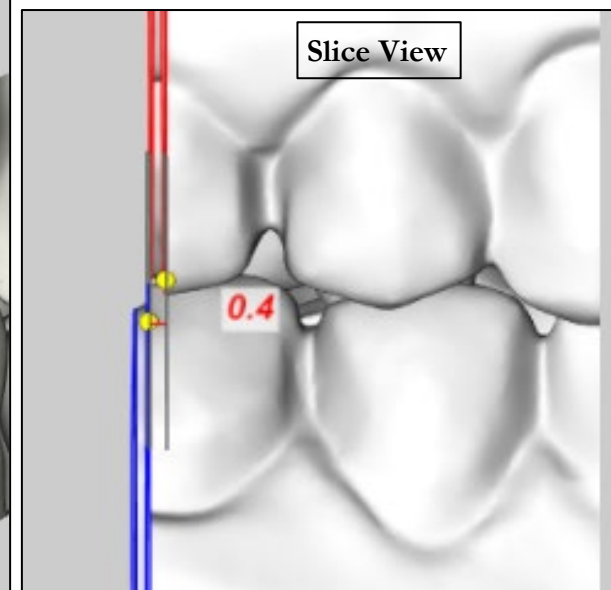
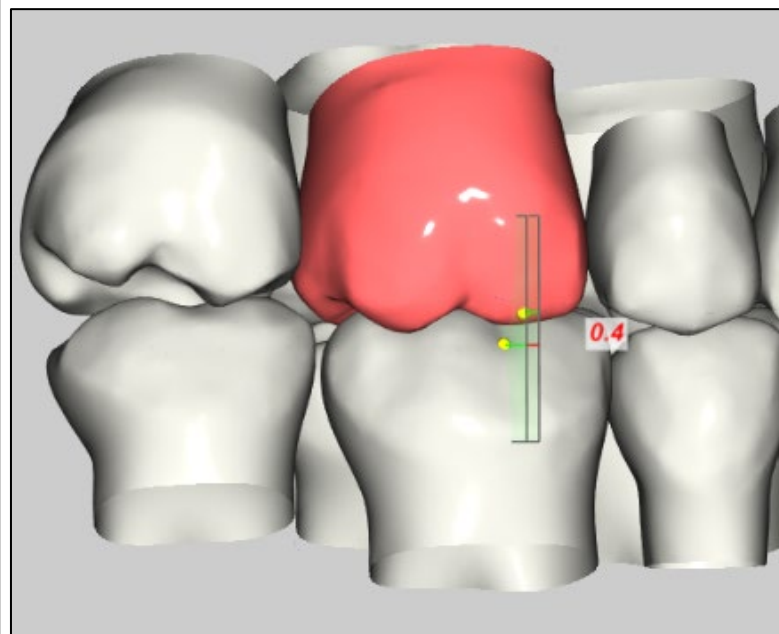
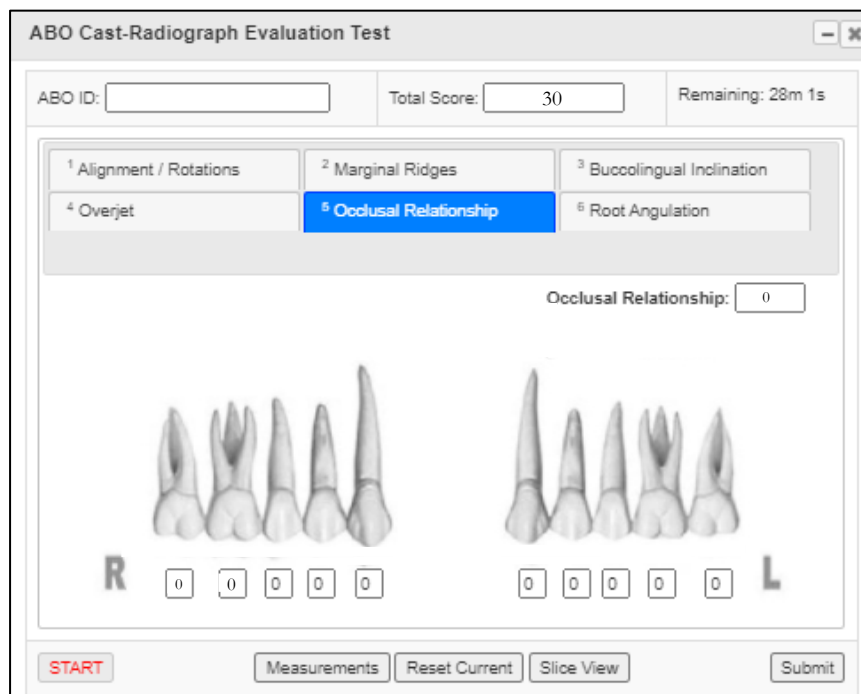
Step # 1



ABO Cast Radiograph-Evaluation (CR-E) Using Ortho Share 3D^(TM)-Online Web Viewer

Occlusal Relationship

Step # 2



ABO Cast Radiograph-Evaluation (CR-E) Using Ortho Share 3DTM-Online Web Viewer

Occlusal Relationship

Step # 3

ABO Cast-Radiograph Evaluation Test

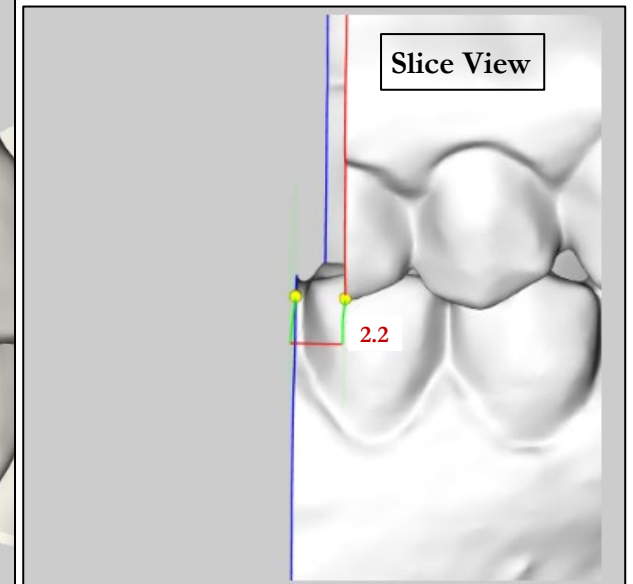
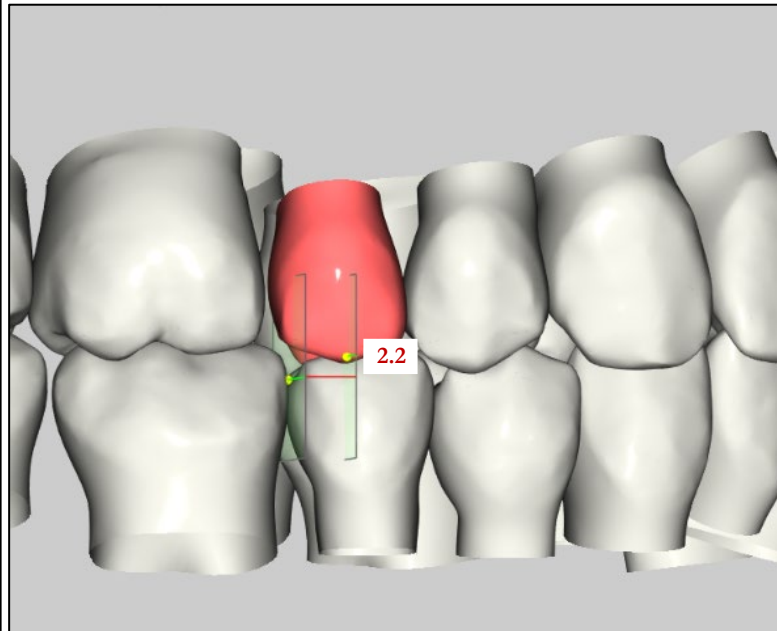
ABO ID: Total Score: Remaining: 28m 1s

¹ Alignment / Rotations	² Marginal Ridges	³ Buccolingual Inclination
⁴ Overjet	⁵ Occlusal Relationship	⁶ Root Angulation

Occlusal Relationship:

R L

START Measurements Reset Current Slice View Submit



ABO Cast Radiograph-Evaluation (CR-E) Using Ortho Share 3D™-Online Web Viewer

Occlusal Relationship

Step # 4

ABO Cast-Radiograph Evaluation Test

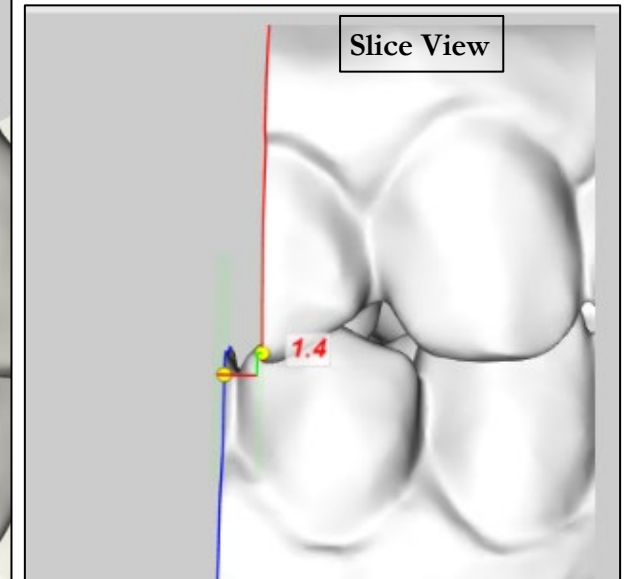
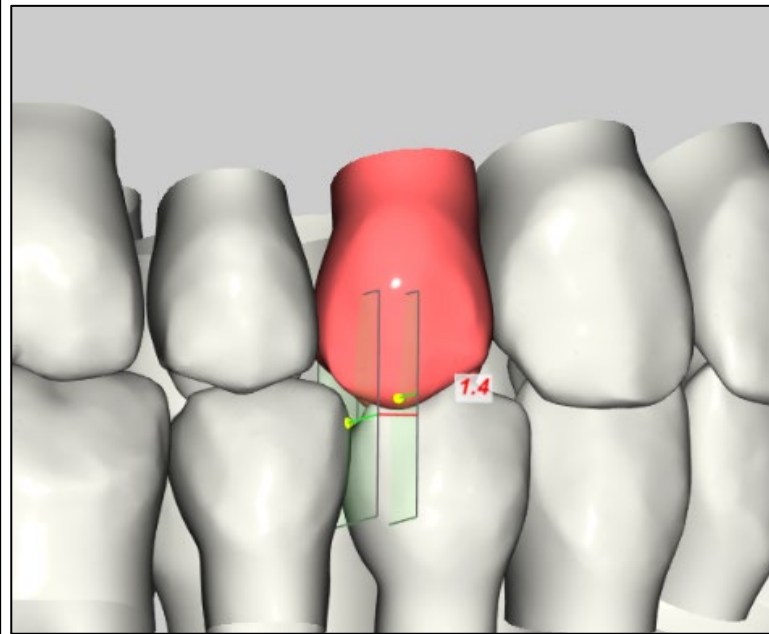
ABO ID: Total Score: Remaining: 28m 1s

¹ Alignment / Rotations	² Marginal Ridges	³ Buccolingual Inclination
⁴ Overjet	⁵ Occlusal Relationship	⁶ Root Angulation

Occlusal Relationship:

R L

START Measurements Reset Current Slice View Submit



ABO Cast Radiograph-Evaluation (CR-E) Using Ortho Share 3D™-Online Web Viewer

Occlusal Relationship

Step # 5

ABO Cast-Radiograph Evaluation Test

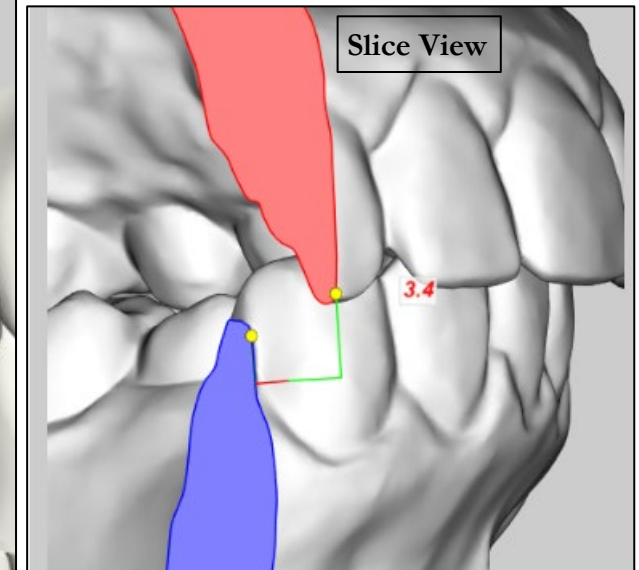
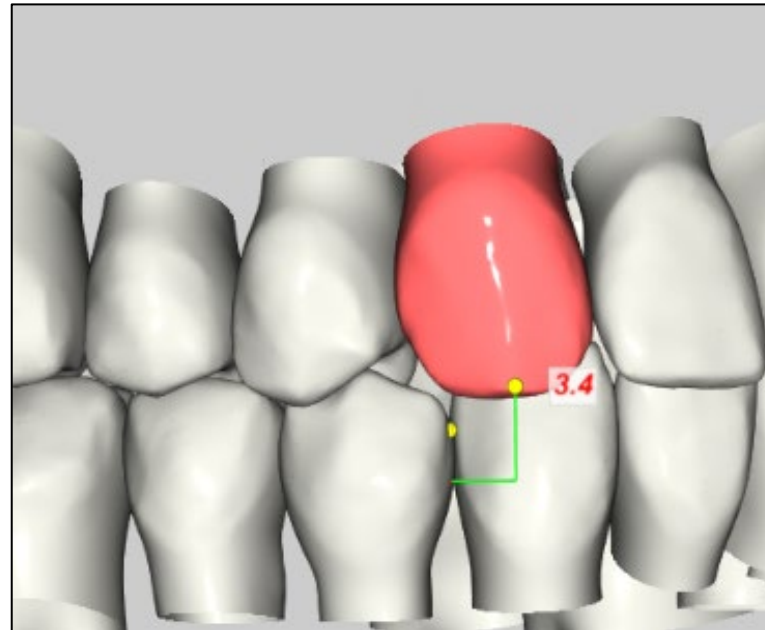
ABO ID: Total Score: Remaining: 28m 1s

¹ Alignment / Rotations	² Marginal Ridges	³ Buccolingual Inclination
⁴ Overjet	⁵ Occlusal Relationship	⁶ Root Angulation

Occlusal Relationship:

R

L



ABO Cast Radiograph-Evaluation (CR-E) Using Ortho Share 3D^(TM)-Online Web Viewer

Occlusal Relationship

Step # 6

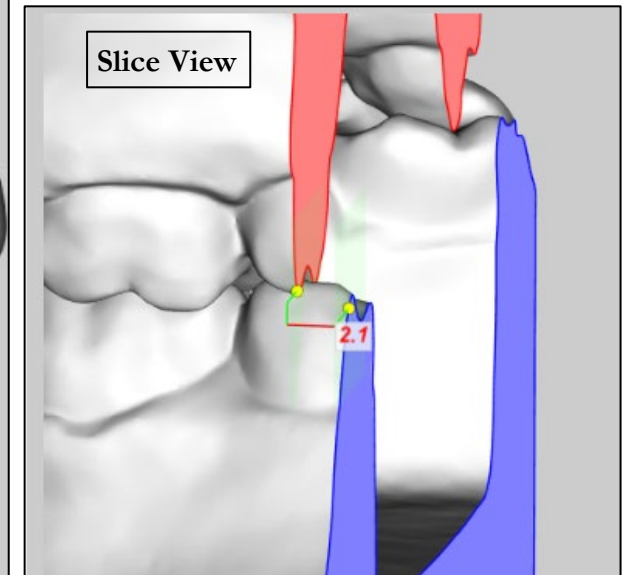
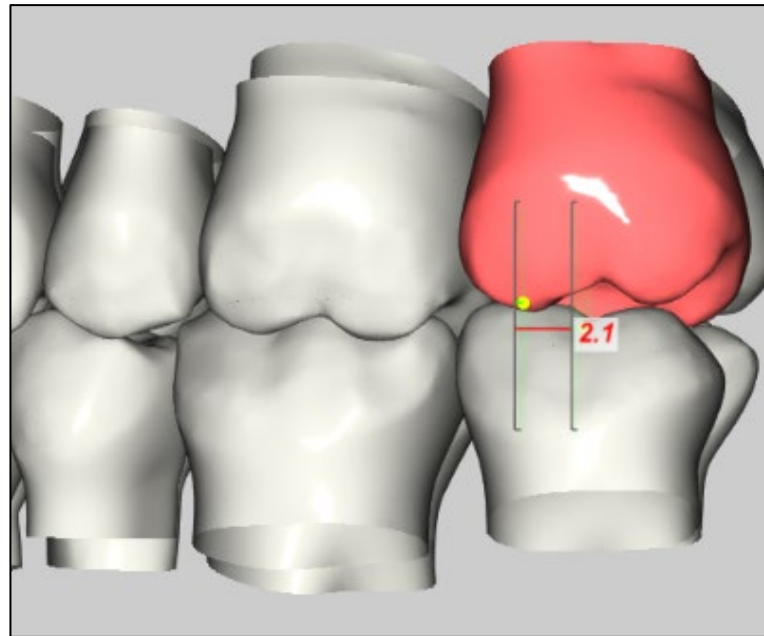
ABO Cast-Radiograph Evaluation Test

ABO ID: Total Score: Remaining: 28m 1s

¹ Alignment / Rotations	² Marginal Ridges	³ Buccolingual Inclination
⁴ Overjet	⁵ Occlusal Relationship	⁶ Root Angulation

Occlusal Relationship:

R L



ABO Cast Radiograph-Evaluation (CR-E) Using Ortho Share 3D™-Online Web Viewer

Occlusal Relationship

Step # 7

ABO Cast-Radiograph Evaluation Test

ABO ID: Total Score: Remaining: 28m 1s

¹ Alignment / Rotations	² Marginal Ridges	³ Buccolingual Inclination
⁴ Overjet	⁵ Occlusal Relationship	⁶ Root Angulation

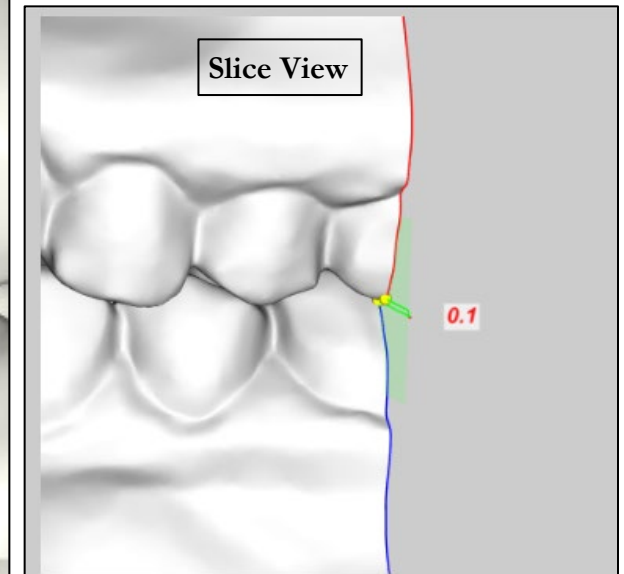
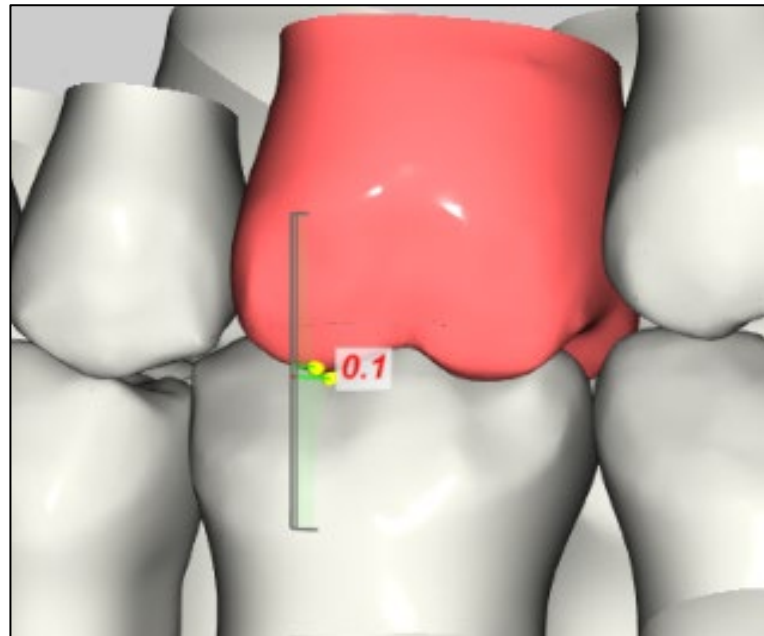
Occlusal Relationship:

R

<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text" value="2"/>	<input type="text" value="1"/>	<input type="text" value="2"/>
--------------------------------	--------------------------------	--------------------------------	--------------------------------	--------------------------------

L

<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text" value="2"/>
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ABO Cast Radiograph-Evaluation (CR-E) Using Ortho Share 3D[™]-Online Web Viewer

Occlusal Relationship

Step # 8

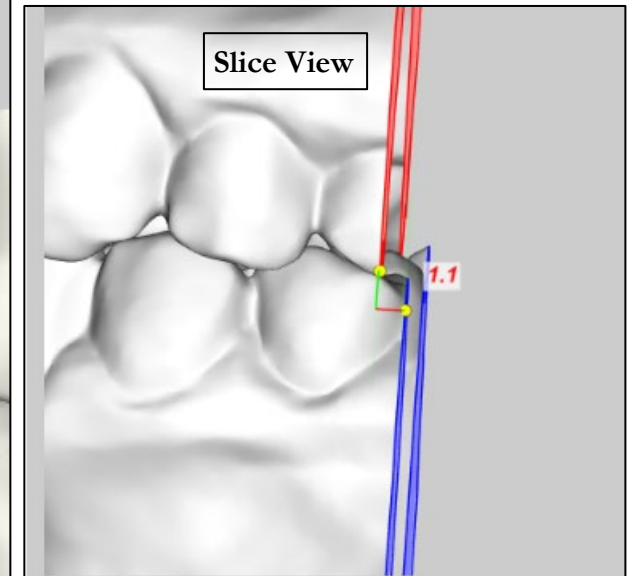
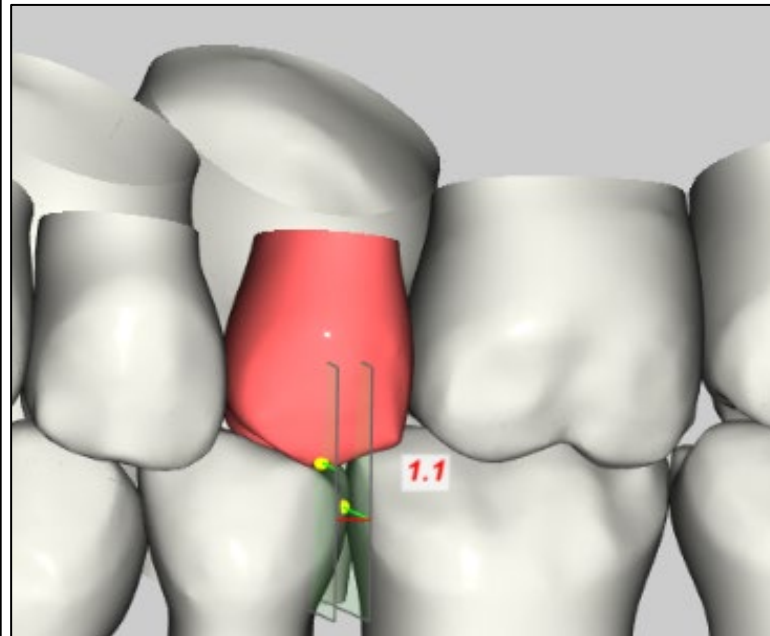
ABO Cast-Radiograph Evaluation Test

ABO ID: Total Score: Remaining: 28m 1s

¹ Alignment / Rotations	² Marginal Ridges	³ Buccolingual Inclination
⁴ Overjet	⁵ Occlusal Relationship	⁶ Root Angulation

Occlusal Relationship:

R L



ABO Cast Radiograph-Evaluation (CR-E) Using Ortho Share 3D™-Online Web Viewer

Occlusal Relationship

Step # 9

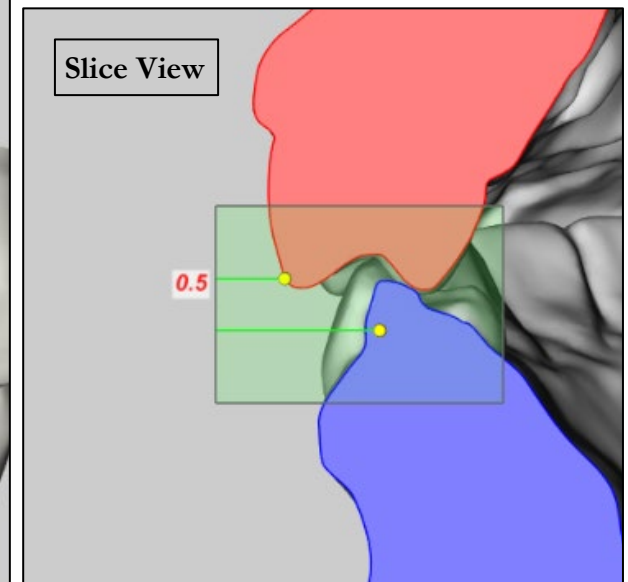
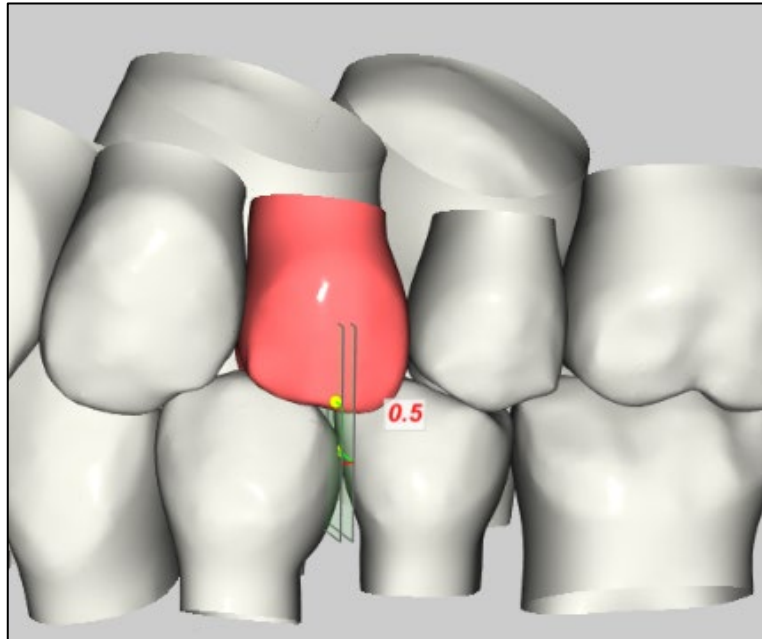
ABO Cast-Radiograph Evaluation Test

ABO ID: Total Score: 38 Remaining: 28m 1s

¹ Alignment / Rotations	² Marginal Ridges	³ Buccolingual Inclination
⁴ Overjet	⁵ Occlusal Relationship	⁶ Root Angulation

Occlusal Relationship: 8

R L



ABO Cast Radiograph-Evaluation (CR-E) Using Ortho Share 3DTM-Online Web Viewer

Occlusal Relationship

Step # 10

ABO Cast-Radiograph Evaluation Test

ABO ID: Total Score: Remaining: 28m 1s

¹ Alignment / Rotations	² Marginal Ridges	³ Buccolingual Inclination
⁴ Overjet	⁵ Occlusal Relationship	⁶ Root Angulation

Occlusal Relationship:

R L

START Measurements Reset Current Slice View Submit

