

Caseworx

IAO EDITION



Nelson Mark, nel@jklsoftware.com
Senior Platform Architect, JKL Software
Commercial Photographer, Lightwriters



JKL Software

Caseworx

REVISION HISTORY

2015, Mar 26 – v1.0 Initial release

2015, Apr 22 – v1.1 Added new feature information, case types (fellow/diplomate), re-submission feature, tracing+overlay

Caseworx

OVERVIEW



IBO Case Presentation Format



- Full narrative output
- Copies or prints of radiographs
- Ceph tracings sets (radiograph, tracing, overlay)
- Mounted or grid printed photographs
- Boxes of study models or digital model images
- IBO Cephalometric Summary

Common Case Problems

Missing details or items completely

- Fields left blank
 - Can't tell if left out or just plain missing
- "Normal" or intentional blank should have something indicating such
 - "Within normal limits"
 - "No extraordinary findings"
 - "Not applicable for this patient"
- Missing whole sections of photos or imaging
 - Should have Pre-Tx, Post-Tx
 - Post+2 years if applicable

Common Case Problems

Not enough details

- Assumption that examiner knows the patient like you do
- Narrative does not establish a good picture of patient for examiner
 - Poor or thin patient history
 - Should already have data based on actual patient evaluation and management, right?
 - Missing or incomplete clinical evaluation
 - Lack of scientific evidence in details
 - “Patients weight was normal for their age”
 - “Patient weighed 155lbs, within the normal range for their age”

Common Case Problems

Improper formatting, grammar and/or spelling errors

- Poor grammar and sentence structure
 - What is “that” and where is “there”?
- Narrate case in neutral viewer position
 - No: “I saw the patient and she had pain in the left side of her face”
 - Yes: “The patient presents with a severe case of pain in the left side of her face”
- Data in wrong place(s), not in right order
- Not formatted to “IBO presentation standard”

Common Case Problems

Poor imaging

- Radiographs not clear
- Copies/scans not clear, but originals are
- Improper items in image
 - Earrings not removed
 - Tongue rings present
- Poor angulation of image
- Landmarks not clearly visible
- Landmarks misidentified in ceph

Common Case Problems

Poor photographs

- Poorly exposed
- Poorly focused
- Bad coloration/color casts
- Not composed correctly
 - Patient not looking STRAIGHT AHEAD
 - Has eyeglasses on
 - Eyes closed
 - Shoulders not visible
 - Image crooked or not level
- Missing required images

Common Case Problems

Poor quality study models

- Rough, not finished cleanly
- Bad impression
- Improper size, not within IBO standards
- Not marked with date or doctors ID
- Digital printout not clear
- Digital printout not labeled correctly

Caseworx

CANDIDATE



What Benefits? Why?

- Why build a digital case?
- How does it help?
- Where does it all fit in?
- What does it do for me?!

Benefit – Singular Data Fielding

- One thought, one answer
- Saves each item separately
- Easy to spot missing items

The screenshot displays a digital form with three distinct sections, each with a title bar and a text input area. The sections are: 1. 'Medical History' with a prompt to describe the patient's medical history, including allergies, medications, and family disease history. The text entered is: 'The patient has a history of high blood pressure and constant tinnitus with an active allergy to metals, specifically C, and takes NSAIDS almost every day for headaches. Most members of the patient's family has a history of HBP'. 2. 'Accident / Causative History' with a prompt to describe details if the complaint is related to a work or vehicular accident, specific injury/cause, or 'not related'. The text entered is: 'This patient's complaint was not related to an accident, either at work or of vehicular nature.'. 3. 'Physical Examination' with a prompt to indicate details of the patient's physical exam, such as demeanor, head posture, gait, balance, etc. The text entered is: 'The patient is in good physical condition, with a smooth gait, decent balance and head posture WNL. The patient slurring and their hearing is WNL. According to the patient, the only time their hearing is affected is when a ringing'. Each section is separated by a horizontal line with three dots in the center.

Medical History

Describe patient's medical history, including allergies, current medications & treatments, family disease history

The patient has a history of high blood pressure and constant tinnitus with an active allergy to metals, specifically C, and takes NSAIDS almost every day for headaches. Most members of the patient's family has a history of HBP

...

Accident / Causative History

Describe details if the complaint is related to a work or vehicular accident, specific injury/cause, or 'not related

This patient's complaint was not related to an accident, either at work or of vehicular nature.

...

Physical Examination

Indicate details of patient's physical exam, such as demeanor, head posture, gait, balance, etc.

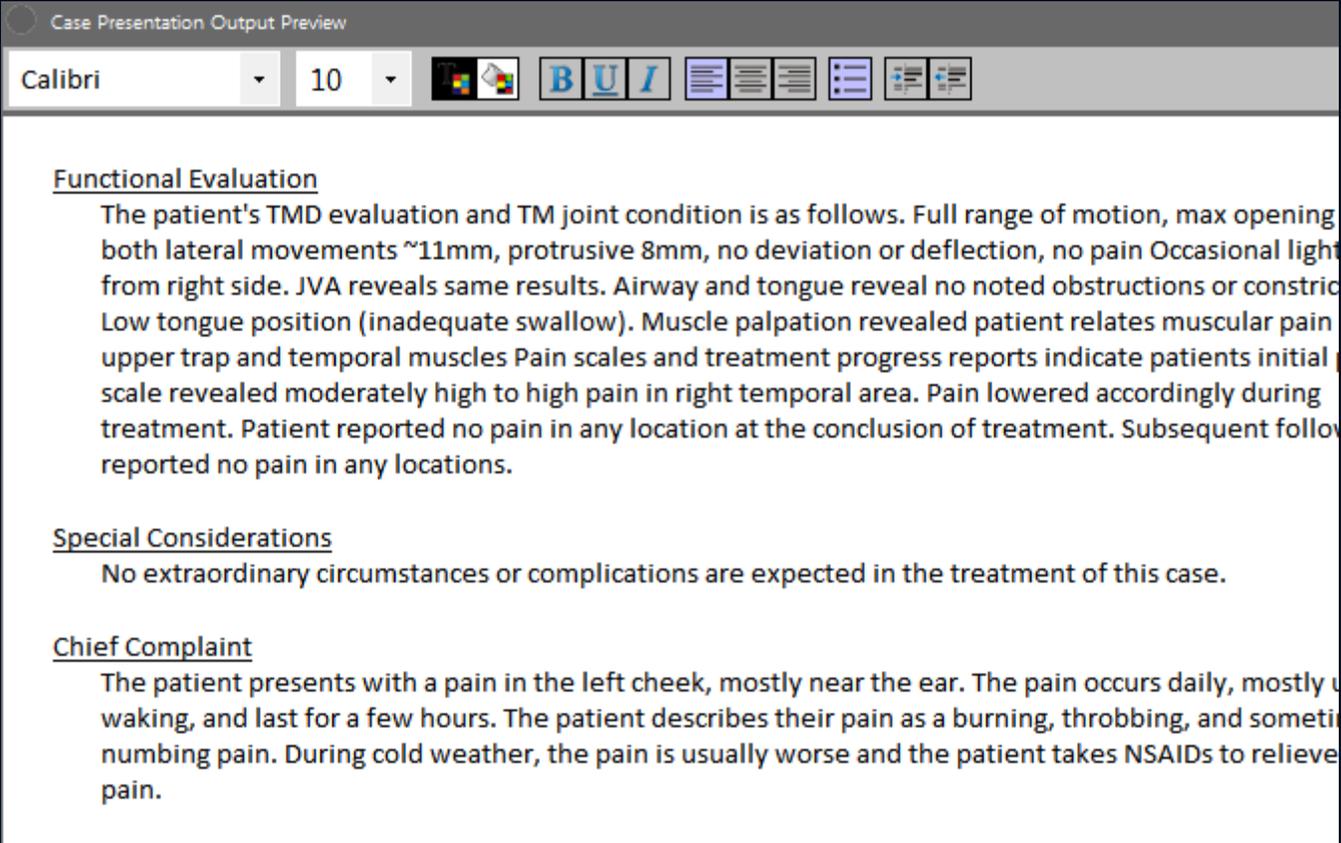
The patient is in good physical condition, with a smooth gait, decent balance and head posture WNL. The patient slurring and their hearing is WNL. According to the patient, the only time their hearing is affected is when a ringing

...

Dental History / Intraoral Examination

Benefit – Auto Output Formatting

- Properly orders items
- Saved separately from data
- Can be manually edited
- Can be exported to Microsoft Word



Case Presentation Output Preview

Calibri 10

Functional Evaluation

The patient's TMD evaluation and TM joint condition is as follows. Full range of motion, max opening both lateral movements ~11mm, protrusive 8mm, no deviation or deflection, no pain Occasional light from right side. JVA reveals same results. Airway and tongue reveal no noted obstructions or constriction. Low tongue position (inadequate swallow). Muscle palpation revealed patient relates muscular pain upper trap and temporal muscles Pain scales and treatment progress reports indicate patients initial scale revealed moderately high to high pain in right temporal area. Pain lowered accordingly during treatment. Patient reported no pain in any location at the conclusion of treatment. Subsequent follow up reported no pain in any locations.

Special Considerations

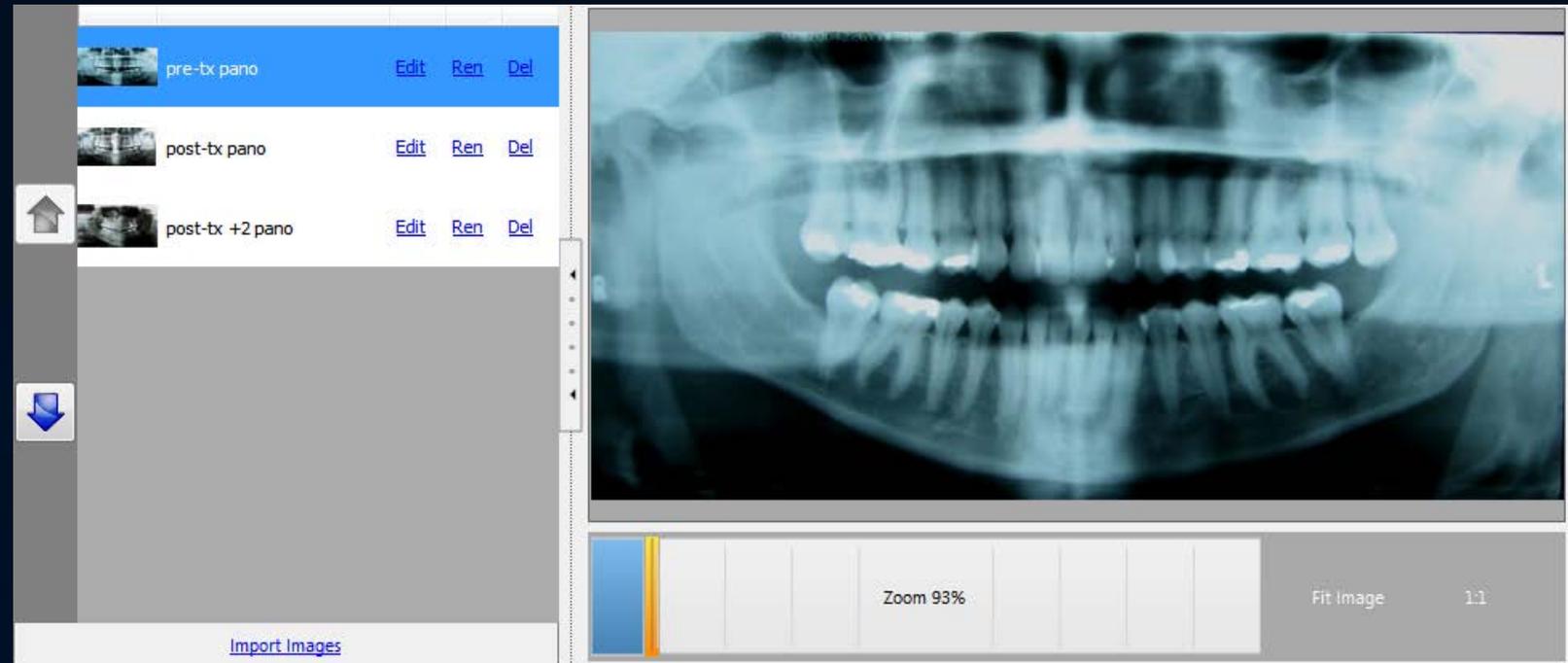
No extraordinary circumstances or complications are expected in the treatment of this case.

Chief Complaint

The patient presents with a pain in the left cheek, mostly near the ear. The pain occurs daily, mostly upon waking, and last for a few hours. The patient describes their pain as a burning, throbbing, and sometimes numbing pain. During cold weather, the pain is usually worse and the patient takes NSAIDs to relieve pain.

Benefit – Digital Imaging Storage

- Saved with case
- Labeled and ordered
- WSYIWYG for examiner



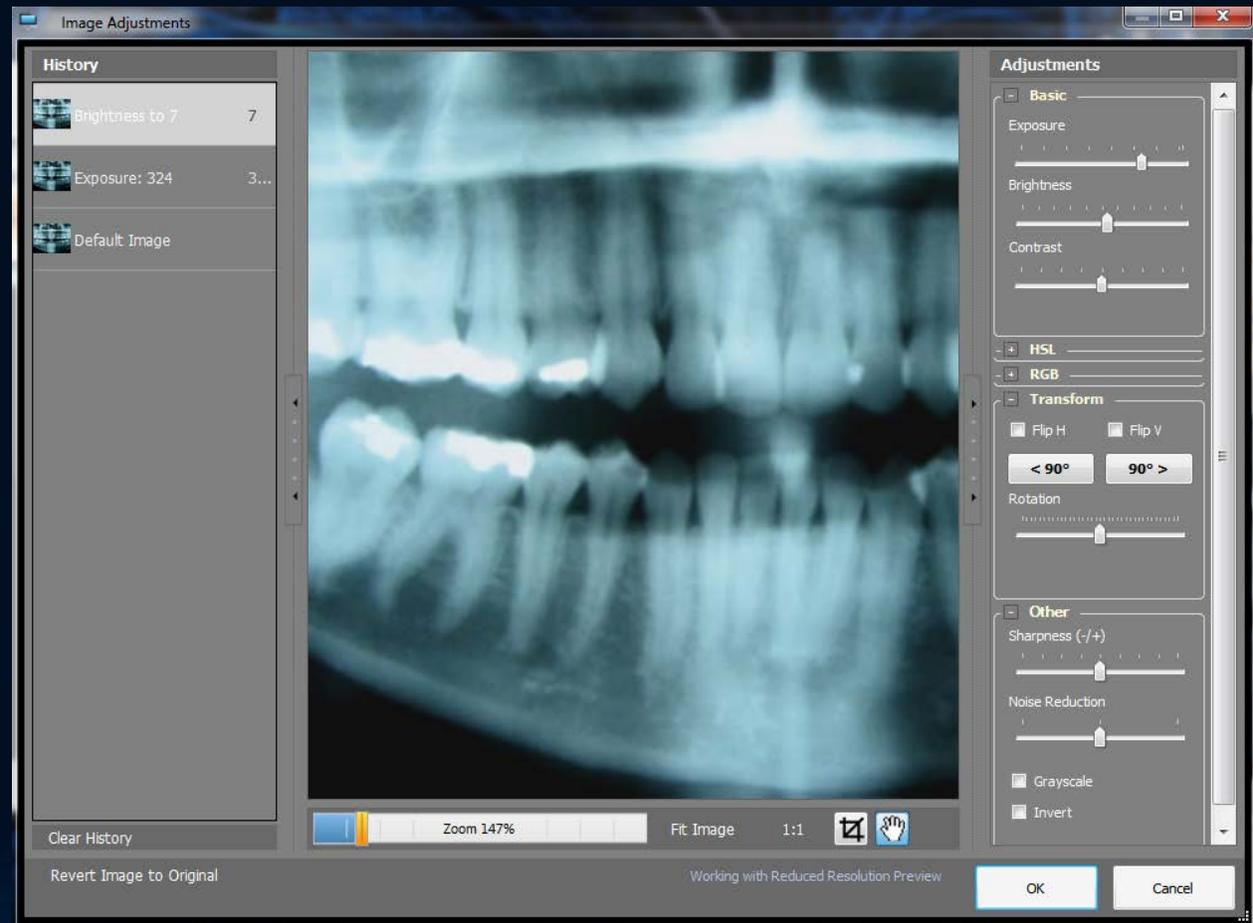
Benefit – Digital Photo Grids

- Saved with case
- Labeled and ordered
- Grid auto-generated



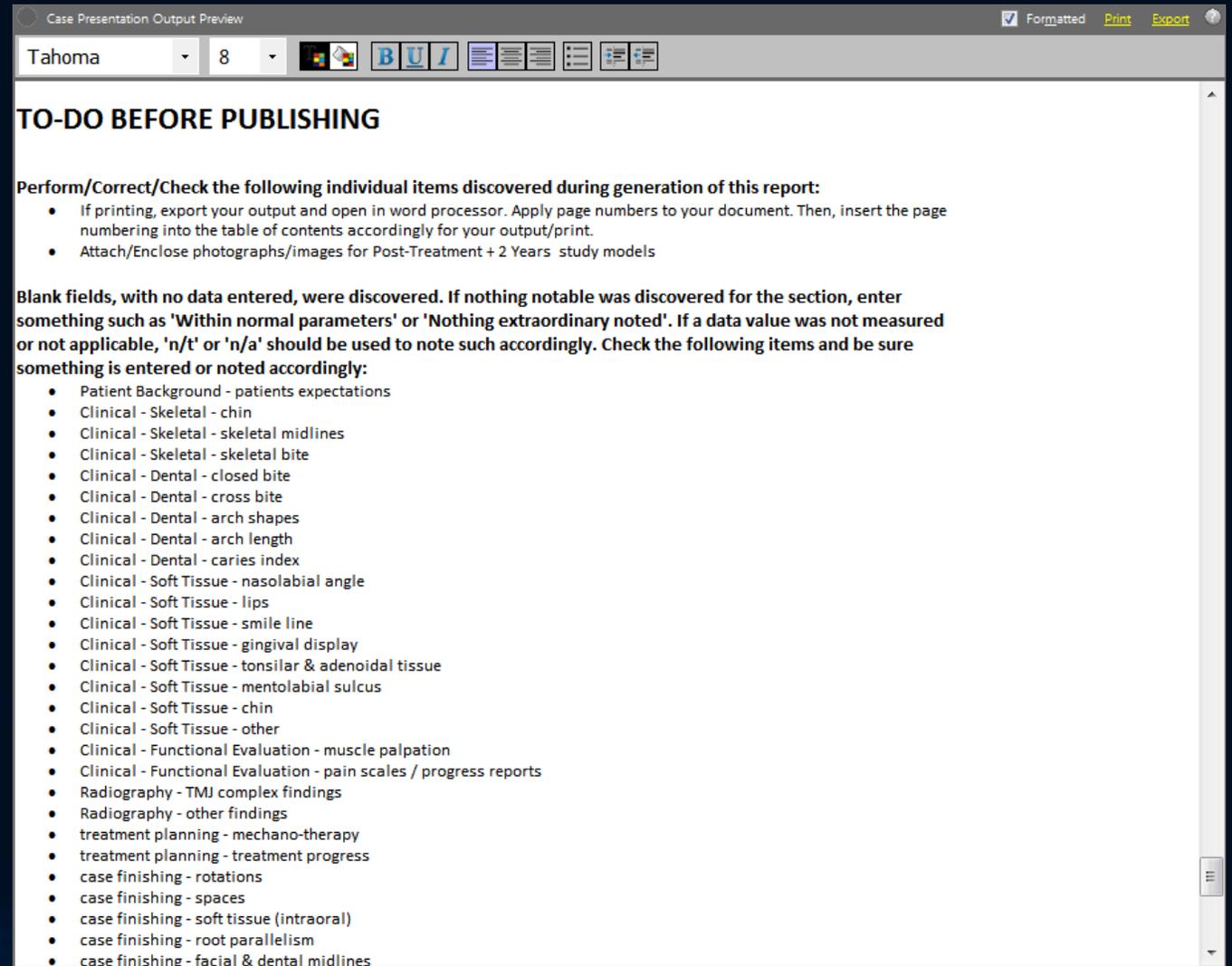
Benefit – Built-in Image Editing

- Non-destructive
- Cropping, exposure, color cast removal
- Maintains change history



Benefit – To-Do List

- Shows missed fields
- Auto-generated when refreshing output
- Reminds of things to do before submitting case



The screenshot shows a software window titled "Case Presentation Output Preview" with a toolbar containing icons for "Formatted", "Print", and "Export". The main content area is titled "TO-DO BEFORE PUBLISHING" and contains the following text and list:

Perform/Correct/Check the following individual items discovered during generation of this report:

- If printing, export your output and open in word processor. Apply page numbers to your document. Then, insert the page numbering into the table of contents accordingly for your output/print.
- Attach/Enclose photographs/images for Post-Treatment + 2 Years study models

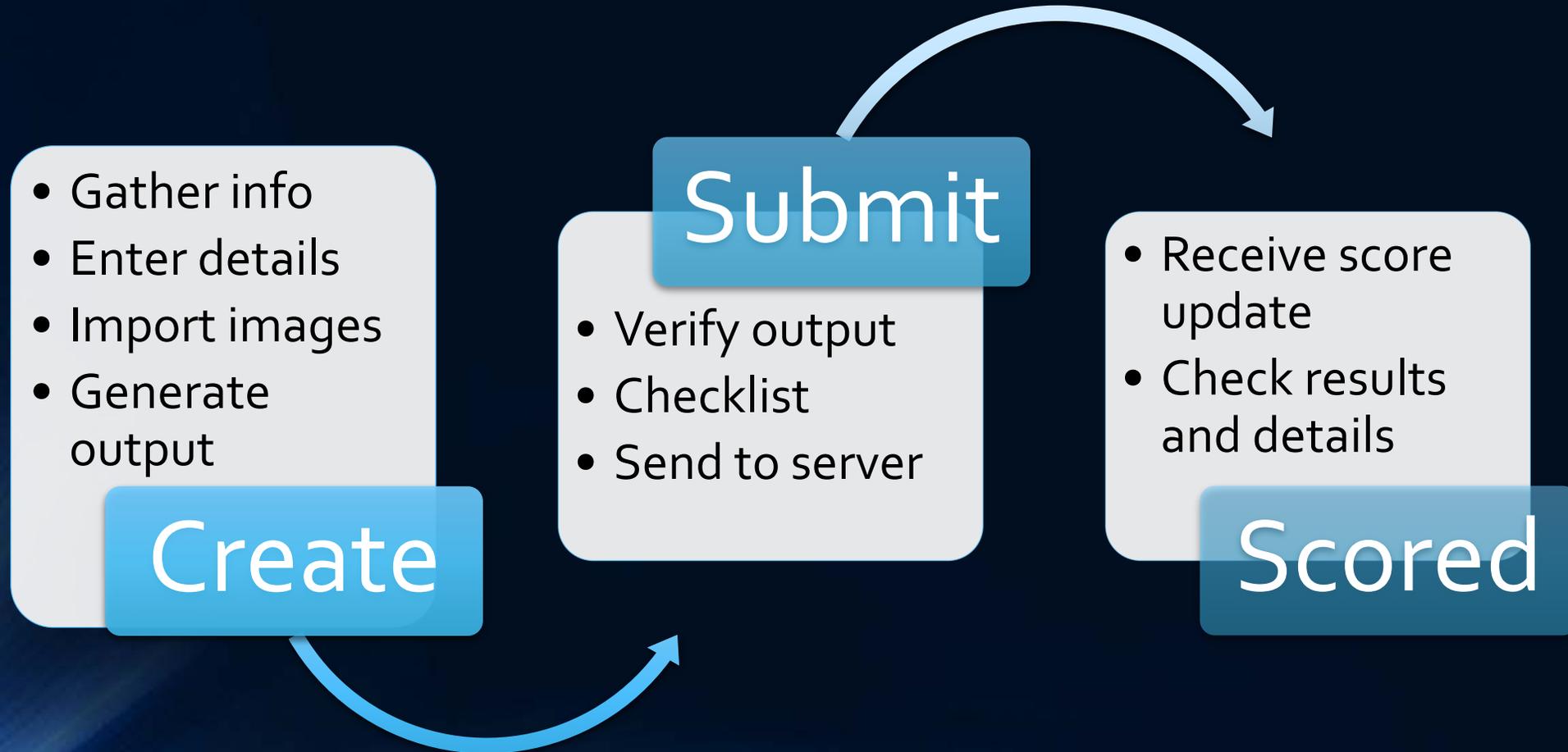
Blank fields, with no data entered, were discovered. If nothing notable was discovered for the section, enter something such as 'Within normal parameters' or 'Nothing extraordinary noted'. If a data value was not measured or not applicable, 'n/t' or 'n/a' should be used to note such accordingly. Check the following items and be sure something is entered or noted accordingly:

- Patient Background - patients expectations
- Clinical - Skeletal - chin
- Clinical - Skeletal - skeletal midlines
- Clinical - Skeletal - skeletal bite
- Clinical - Dental - closed bite
- Clinical - Dental - cross bite
- Clinical - Dental - arch shapes
- Clinical - Dental - arch length
- Clinical - Dental - caries index
- Clinical - Soft Tissue - nasolabial angle
- Clinical - Soft Tissue - lips
- Clinical - Soft Tissue - smile line
- Clinical - Soft Tissue - gingival display
- Clinical - Soft Tissue - tonsillar & adenoidal tissue
- Clinical - Soft Tissue - mentolabial sulcus
- Clinical - Soft Tissue - chin
- Clinical - Soft Tissue - other
- Clinical - Functional Evaluation - muscle palpation
- Clinical - Functional Evaluation - pain scales / progress reports
- Radiography - TMJ complex findings
- Radiography - other findings
- treatment planning - mechano-therapy
- treatment planning - treatment progress
- case finishing - rotations
- case finishing - spaces
- case finishing - soft tissue (intraoral)
- case finishing - root parallelism
- case finishing - facial & dental midlines

Benefit – Learn to Collect Proper Documentation

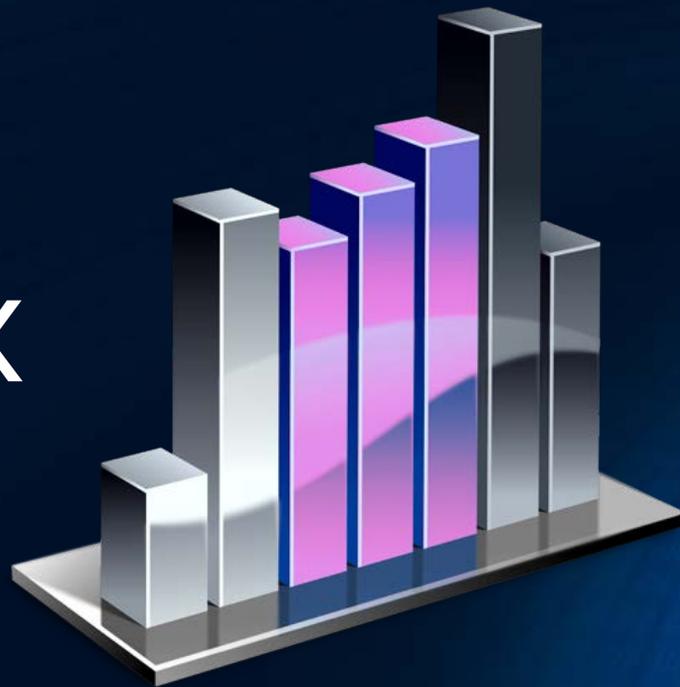
- Covers medical necessity for treatment
- Provides legal documentation
- Consistent, predictable documentation between all cases
- Great exercise for daily practice

Candidate Case Process



Caseworx

INSTALLATION



Getting Caseworx Package

- Download directly from jklsoftware.com
 - Choose Products -> Caseworx (jklsoftware.com/caseworx)
 - Free for all IAO members

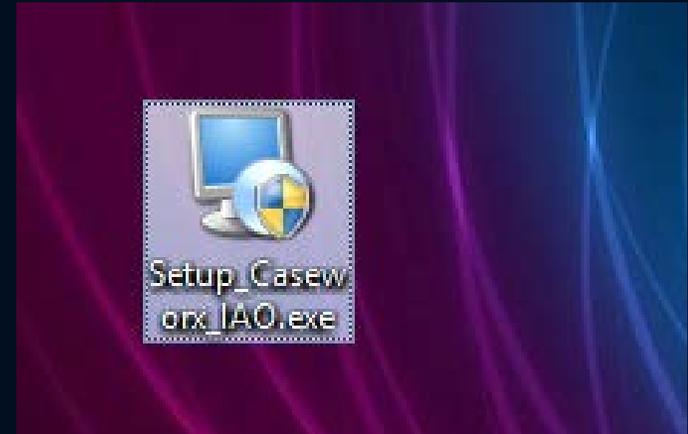
Downloads

-  Download the installer package
-  Download the User's Guide
-  Download the Preview Version Cleanup Tool
-  Download the Preview Version Cleanup Tool (ZIP Packaged)

- User manuals, Candidate's Handbook included with package
- Updates are directly checked and installed by the program on start

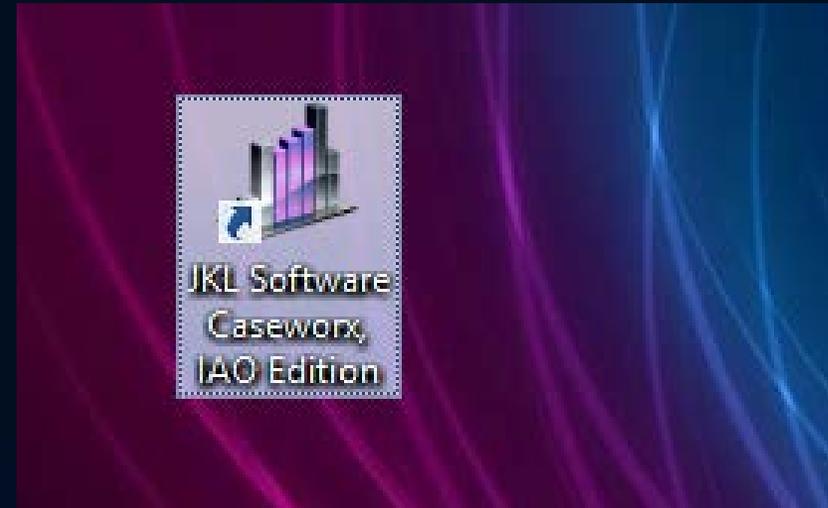
Installing Caseworx Package

- Run package downloaded
- If computer needs updated, installer will inform and download updates directly from Microsoft website
- Cannot install without the updates installed
- May need reboot after install. Will notify if needed.



Starting Caseworx on Your Computer

- Must have Internet connection on first start – checks for updates and create user account
- Double-click icon on desktop or start from Start Menu (JKL Software -> Caseworx)



Creating User Account / Logging In

- Enter e-mail and password to login, if you have an account already
- Create account by clicking on “Don’t Have An Account? Click Here To Sign Up” link

Caseworx - IAO Edition X

Users must login to submit cases electronically and/or check on previous submission scores. Enter the e-mail address you used to sign up and your chosen password.

 E-Mail Address

Password

Remember E-Mail Address on this Computer

[Reset Password](#) [Don't Have An Account? Click Here To Sign Up](#)

Offline Mode

If you are not currently connected online, but have logged in online previously with a valid account, you can work in 'offline' mode, but cannot submit (candidate) or check (examiner) cases.

Previous User ID : DU1004 Offline Mode

Creating User Account

- Enter information to create account
- E-mail address used to identify
- PIN and hint used to reset password
 - Passwords are “hashed”, not stored
 - Cannot be decrypted

Caseworkx - IAO Edition X
Create New User Account

Privacy Notice:
The information provided for your account is for usage by JKL Software and the IAO. We hate spam too, so we'll never give or sell your information to any third-parties for any reason!

First Name

Last Name

Telephone Number

E-Mail Address

Enter Password

Re-enter Password

Password Reset Items - Choose a 4-digit PIN which will be required to reset a forgotten password. Then, enter a 1-word hint to describe the number.

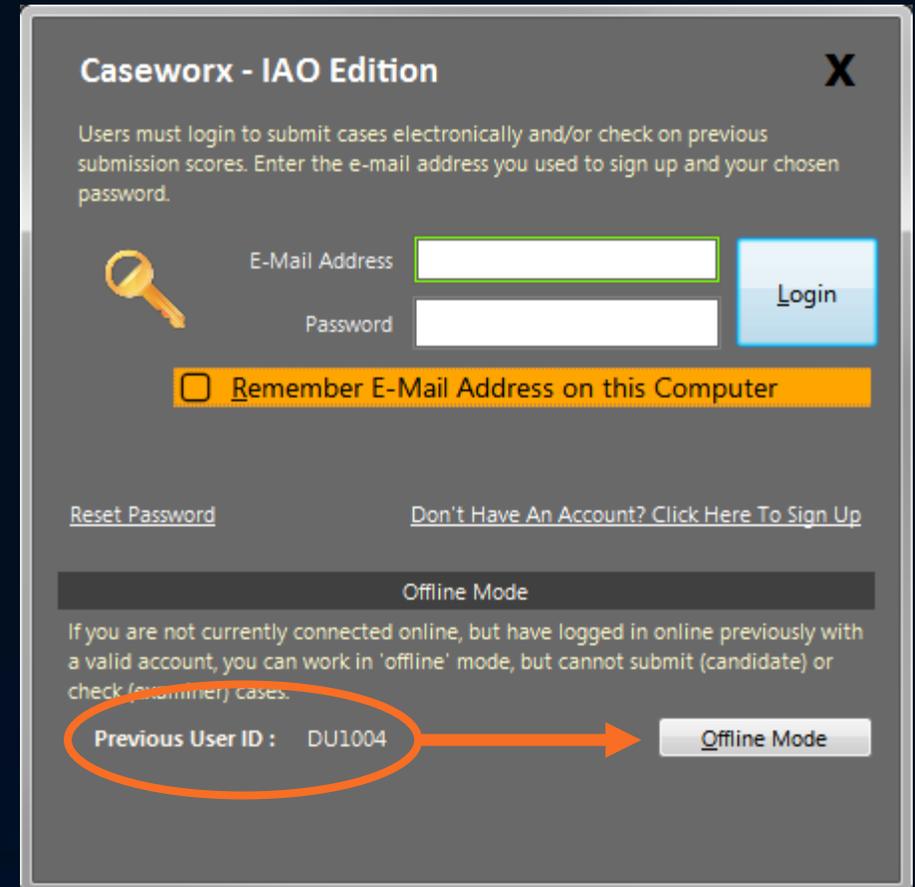
4-digit PIN PIN and Password are one-time encrypted and saved. They cannot ever be read back by anybody!

1-word Hint

Create Account

Working "Offline"

- Allows for cases to be built and worked on without active Internet connection
- Once an account created and logged in once (system will remember the last user that logged in)
- Doesn't check submitted cases and score updates
- Can login at any time to go "online"



Caseworx - IAO Edition X

Users must login to submit cases electronically and/or check on previous submission scores. Enter the e-mail address you used to sign up and your chosen password.

 E-Mail Address

Password

Remember E-Mail Address on this Computer

[Reset Password](#) [Don't Have An Account? Click Here To Sign Up](#)

Offline Mode

If you are not currently connected online, but have logged in online previously with a valid account, you can work in 'offline' mode, but cannot submit (candidate) or check (examiner) cases.

Previous User ID : DU1004

Common Issues

ISSUE/SYMPTOM

- Program acts weird
- Gets "Access Denied" messages
- Images may not save or delete correctly

CAUSE / SOLUTION

- Local Windows user account does not have enough permissions
- Change Windows user account to "Administrator"

Common Issues

ISSUE/SYMPTOM

- Text seems too large or cut off in program
- Proportions of text odd or off
- Most prominent in MacOS installed Parallels or Vmware with "Retina Display" hardware

CAUSE / SOLUTION

- Windows client is configured for "Custom Text Size" greater than 100% or to odd proportion
- Change or reduce the Windows "Screen DPI" or "Custom Text Size"

Common Issues

ISSUE/SYMPTOM

- Submitting packages or updating scores seem to take a long time, never complete, or hang the program

CAUSE / SOLUTION

- Poor or inconsistent Internet connection
- Check Internet connection
 - If wireless, check signal strength
 - Avoid public Wifi points
 - Some cellular connections have high latency

Common Issues

ISSUE/SYMPTOM

- Program cannot install or update

CAUSE / SOLUTION

- Windows permissions too restrictive or missing "Administrator" permission
- Windows User Access Control (UAC) pop-up authorization window was answered "No" when asking for permission to install or update program

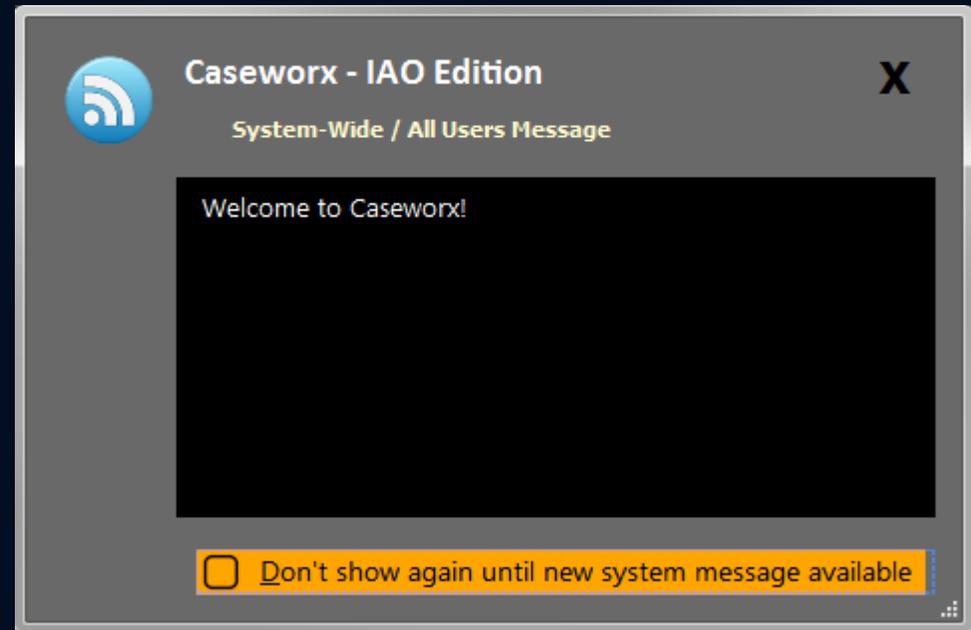
Caseworx

NAVIGATION



System Message

- Shown once on program startup
- Announces system-wide messages
 - System maintenance
 - Major updates, fixes, changes
- Can be hidden until message changes



On-Screen Instructions

- Shows quick list of case creation and submission process tasks
- Can be hidden and shown via the "Help" -> "Show Instructions" menu item in main screen
- More detailed instructions while working available in each section

Instructions to Prepare Your Case

Caseworkx - IAO Edition

The 'Save Changes' button at the bottom of the generator page can be used at any time. Be sure to save your work often! Cases can be saved and resumed at any time. Exam imaging is automatically saved as they are imported into the case.

Check out the 'Sample Case' pre-installed with the program to see an example of how each field can be filled out!

1. Fill out all the fields in the case generator. Be as detailed as possible and include all pertinent details, measurements, and notes.
2. Prepare patient photographs, ensuring clarity, sharpness, color balance, and proper cropping of the images. Import the photographs in the proper location on the 'Photographs' page.
3. Gather all patient study models. Photograph study models or export digital study models from your model program. Import images into the respective study model 'Imaging' page (PreTx, PostTx, PostTx+2). Be sure to name the images correctly and clearly. Order the images in the proper order.
4. Gather patient radiographs. Check films for proper clarity and visibility. For digital imaging, export images/slices from the x-ray software. Import images into the radiography 'Imaging' page. Be sure to name the images correctly and placed in the proper order.
5. Gather all cephalometric tracings and radiographs. Export necessary tracings from digital cephalometric programs. Scan tracings into or import digital tracings into the cephalometric 'Imaging' pages. Be sure to place the tracings in the correct page ('Radiographs' vs. 'Tracings'). Name and order the images accordingly.
6. The case output can be viewed at any time by choosing the last tab, 'Output', and pressing the "Refresh Output" link in the upper-right corner. The refresh will take into account any changes you've made and generate a new output. NOTE: Any manual changes you may have done directly in the output window will be discarded.
7. When all the data has been entered and you are satisfied with everything, choose 'Export' from the upper-right of the 'Output' page to export a copy for further finishing in Microsoft Word. You can also print a work copy using the 'Print' link. If you are doing electronic submission, use the 'Submit Case' button.

Do Not Show Again | [Close These Instructions](#)

Main Screen "Home Page"

- Everything starts and ends on the Home Page
- Shows case status and scoring if online
- Auto-updates every 15 minutes if online, manual at any time
- Starts "New Case"
 - Can also start from "Program" menu

The screenshot displays the 'Casework - IAO Edition - JKL Software' application window. The interface includes a menu bar with 'Program', 'Tools', and 'Help'. A status bar at the top right shows 'Last Checked: 03/22 06:40 PM' and a 'Refresh From Server' link. The main area features a table with the following data:

ID	Type	Patient ID	Status	Examiner 1	Score 1	Examiner 2	Score2	Examiner 3	Score3	Output	Submit Case	Delete
10	local	ADJ-201503	---	---	---	---	---	---	---			
1	sample	JRD-201405 (Sample Case)	assigned	SI1005	90	DH1001	---	---	---	Edit Output	9719-15E1	Delete
	local	MMT-201503	completed	SI1005	52	ET1019	---	KL1003	82	Edit Output	BDEA-6002	Delete

At the bottom of the window, there is a 'New Case' button. The 'Program' menu and the 'New Case' button are highlighted with a pink box. A green box highlights the 'Refresh From Server' link. A green arrow points from the 'Refresh From Server' link to the 'New Case' button. An orange arrow points from the 'Status' column of the table to the 'New Case' button.

Main Screen "Home Page"

ID	Type	Patient ID	Status	Examiner 1	Score 1	Examiner 2	Score2	Examiner 3	Score3				
10	local	ADJ-201503	---	---	---	---	---	---	---	Edit	Output	Submit Case	Delete
1	sample	JRD-201405 (Sample Case)	assigned	SI1005	90	DH1001	---	---	---	Edit	Output	9719-15E1	Delete
9	local	MMT-201503	completed	SI1005	52	ET1019	86	KL1003	82	Edit	Output	BDEA-6002	Delete

- Case Type and Anonymous ID

- Case Status

- Assigned = submitted, in process of scoring
- Holding = examiner hold
- Completed = scoring completed

- Examiner assignments and final scores

- Functions and validations

Case Functions

- Case and output editor
 - Data editor
 - Image editor
 - Output editor

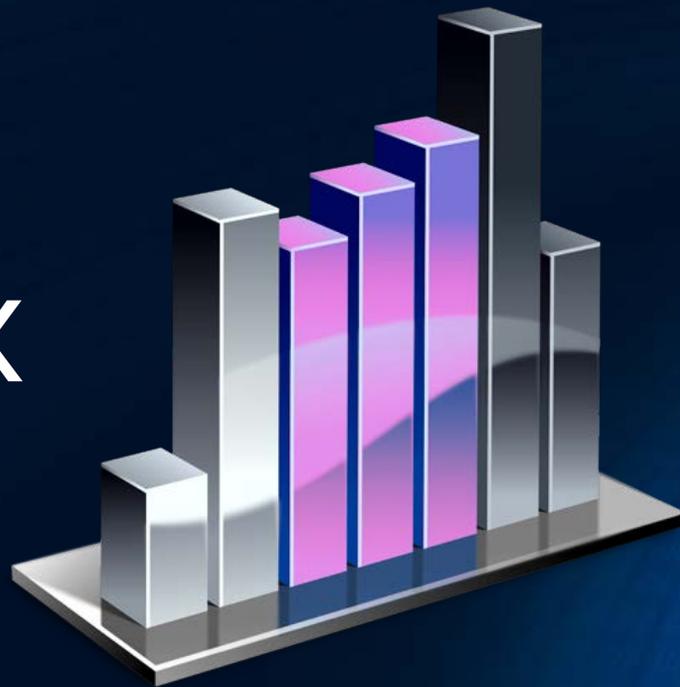
- Output Viewer
 - Shows exactly what examiner will see
 - Also shows detailed score returns
 - Greyed out if no output saved

<u>Edit</u>	Output	Submit Case	<u>Delete</u>
<u>Edit</u>	<u>Output</u>	9719-15E1	Delete
<u>Edit</u>	<u>Output</u>	BDEA-6002	Delete

- Delete case file
 - Cannot delete after submission
 - Cannot be undone once deleted
- Submit/Resubmit case when ready
 - Shows validation code after submission
 - Greyed out if no output saved

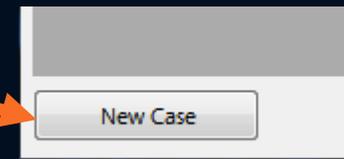
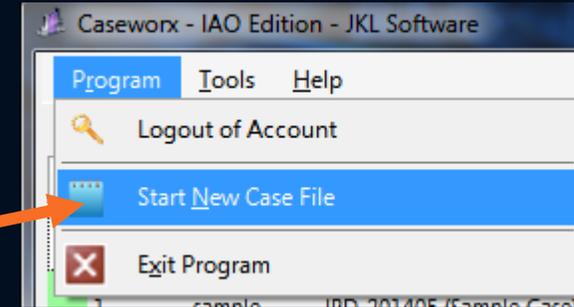
Caseworx

CASE EDITOR



New Case Record

- Started from Program menu
- Also can be started from "New Case" button at lower-left of Home Page



New Case Record

- Generation assistant helps create consistent, unique case ID
- Fellow or diplomate case choice
- Fill out the info and press "Start New Case"
- Preloads the case Editor with information and prepares file for generation

Caseworx - IAO Edition X
Case Name Generation Assistant

Cases should maintain strict anonymity and present the general viewer no details to who the patient actually is. However, as the presenter preparing the case, it is also important that you are able to differentiate your cases.

This unique 'patient id/name', in conjunction with your doctor's id code, is all the examiner will know about the case. Therefore, it is equally important that the case name is meaningful.

Enter the real name information for your patient below and the program will generate a unique "patient name" for your case.

Presenter's (your) ID : DU1004

Case Level :

Patient's Real First Name :

Patient's Real Middle Initial :

Patient's Real Last Name :

Patient's Birthdate :

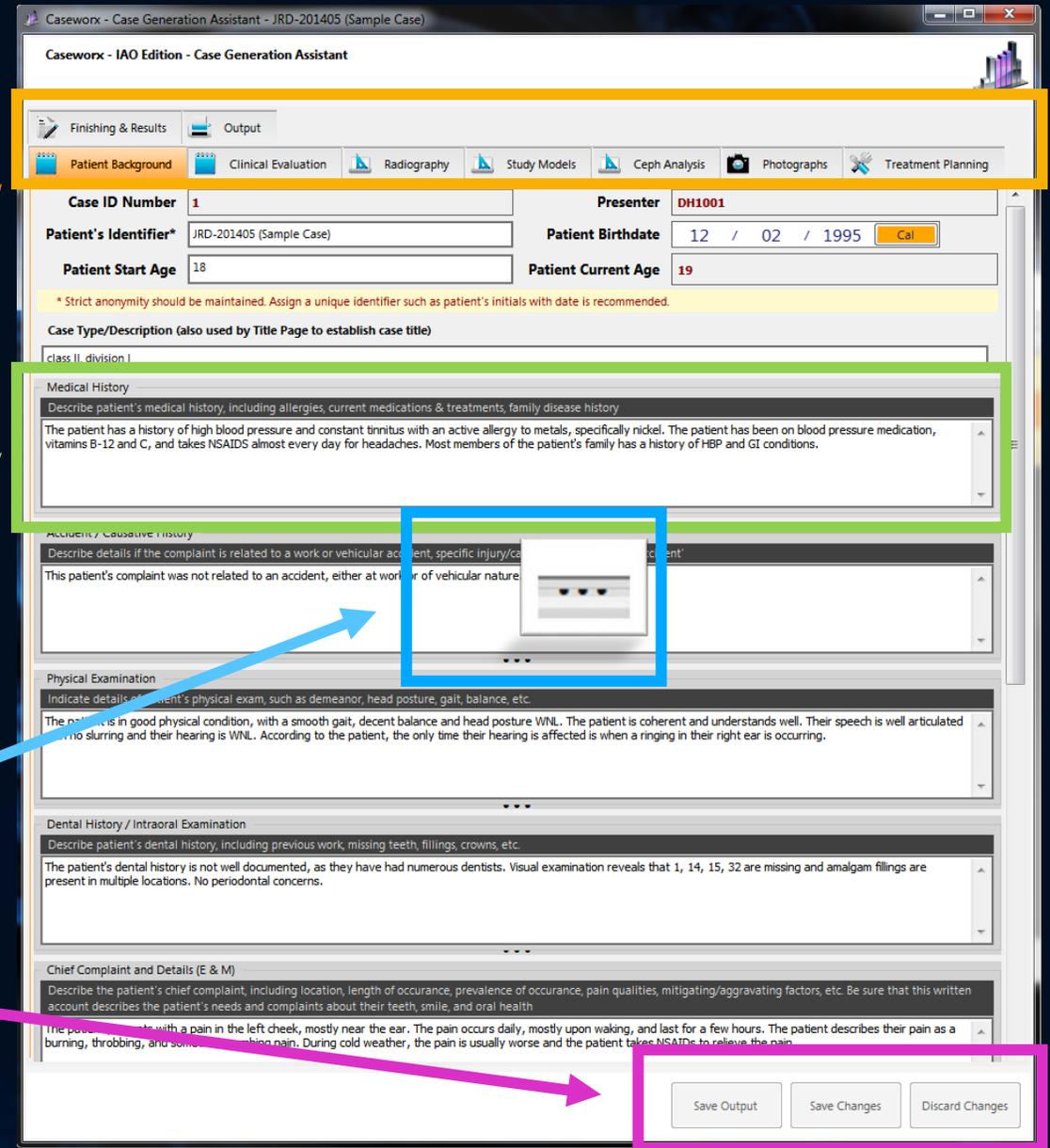
Treatment Start Date :

Case Type (class/division) :

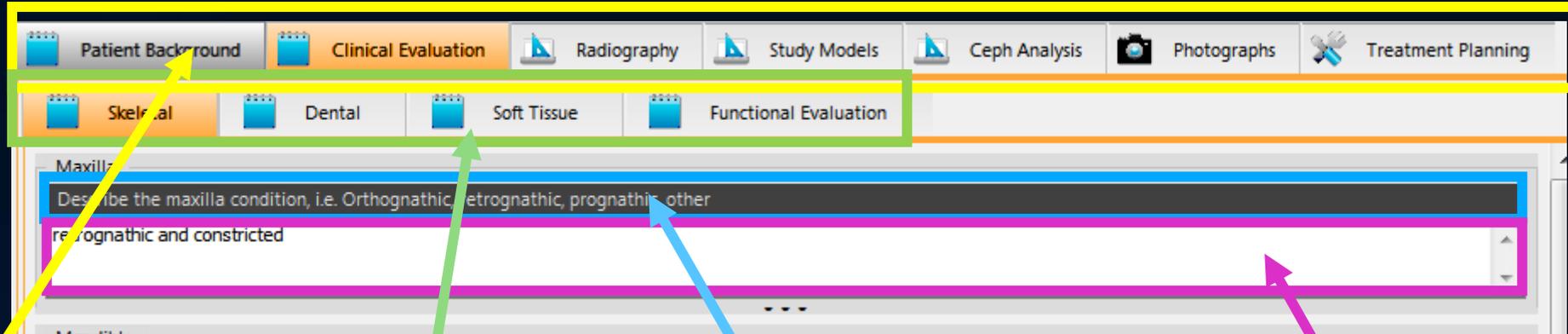
Informed Consent by Patient or Guardian to Use Case Data : Consent Approved and on File

Case Generation Assistant "Editor"

- Cases created/edited on this screen
- Organized in logical sections
- Each section contains individual boxes to enter data
- Item boxes can be expanded to view more data without scrolling
- Data changes can be saved (or discarded) at any time



Data Sections



- Main section choice

- Item instruction and description

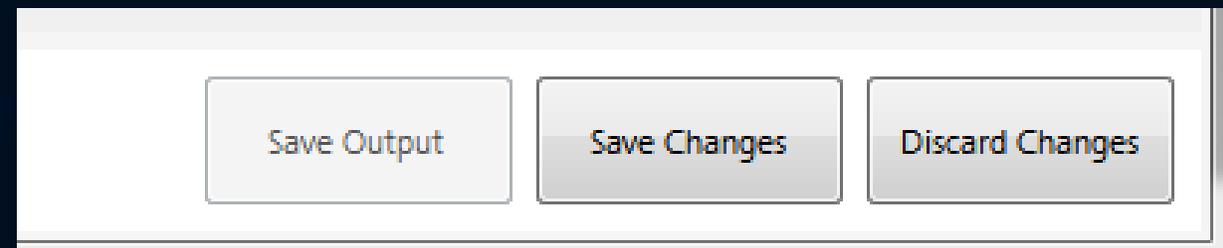
- Subsection

- Item data and details

- Helps organize thoughts better
- May separate data from imaging panel

Saving Data

- Enables when changes detected in data
- Can save or discard (returns to last saved data)
- Images always saved immediately
- “Save Output” on enables when Output has been edited or re-generated
- Can save at any time
 - “Save often”



Imaging Sections

- Image List and Functions

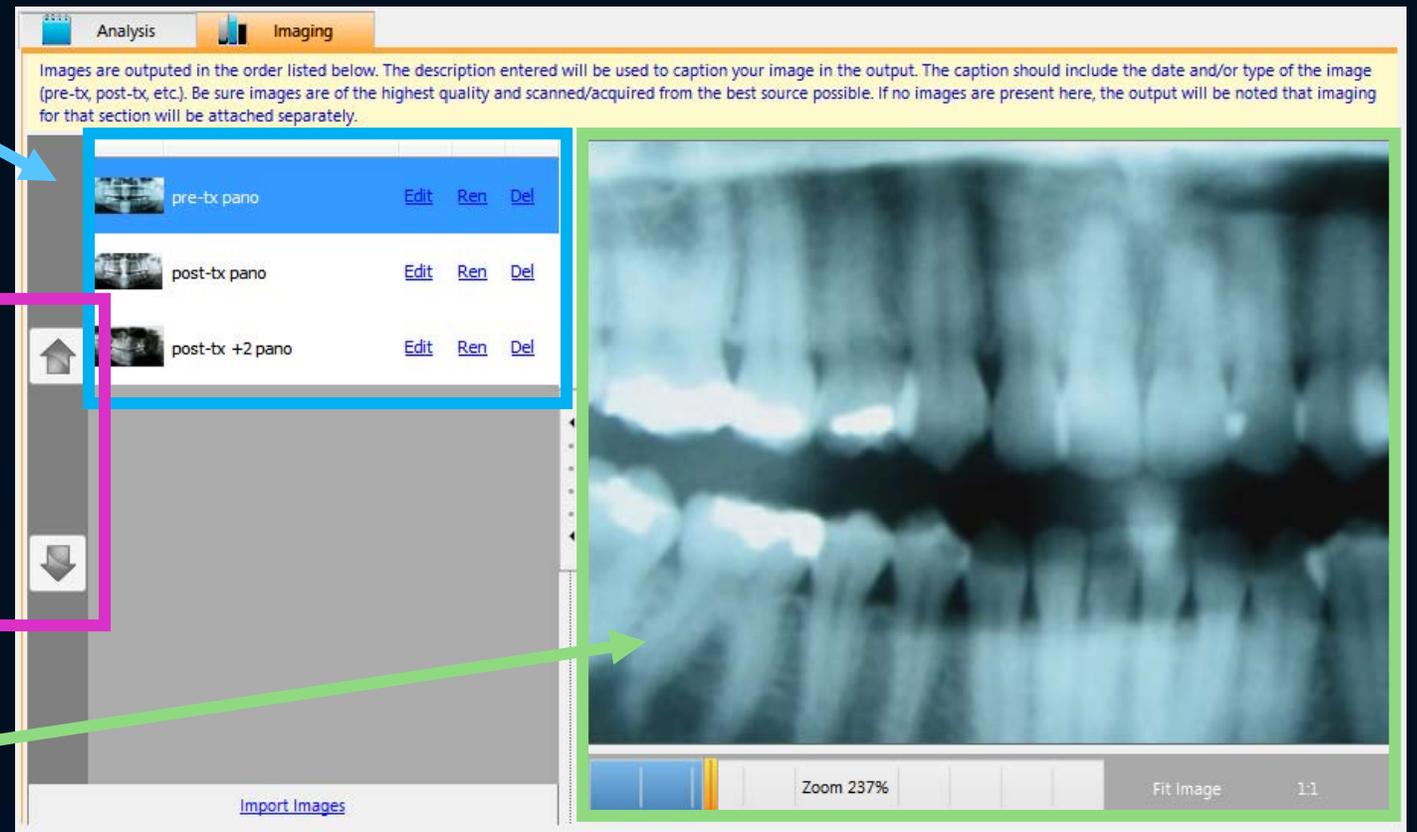
- Name image appropriately
- "Edit" to open image editor

- Image Ordering

- Images output in order listed
- Use arrows to move up/down

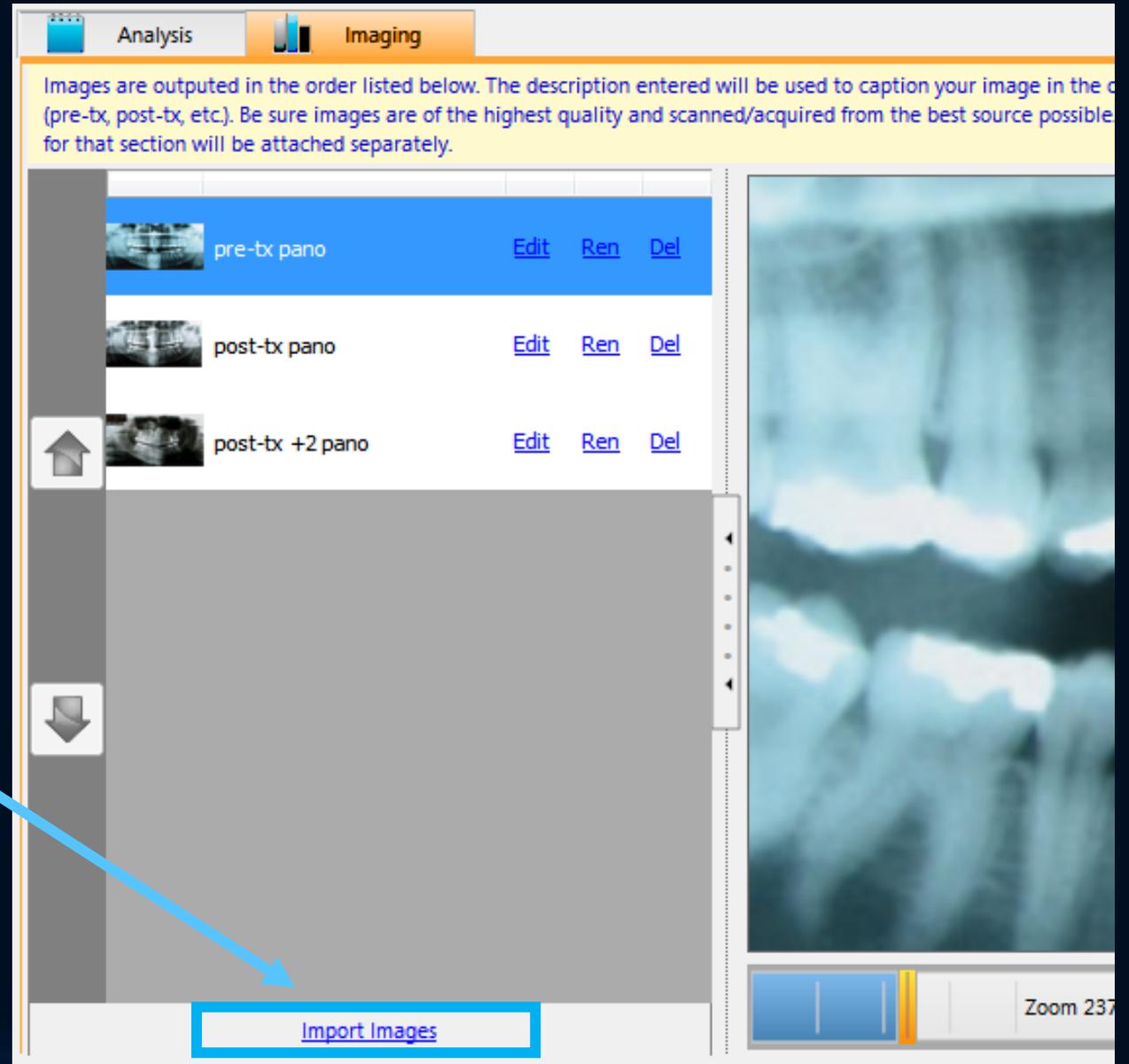
- Viewport and View Controls

- Zoom image to view details
- Click on image and drag to move



Imaging Sections

- Import images
 - Click 'Import Images' link at bottom of each list
 - If scanning, be sure scanner is on and ready before clicking
 - Images saved immediately



Imaging Sections

- Import from File
 - Reads jpg, png, bmp, tiff
- Scan from WIA scanner
 - Enables if scanner found
- Paste from Clipboard
 - Allows any image that can be copied to the clipboard to be used

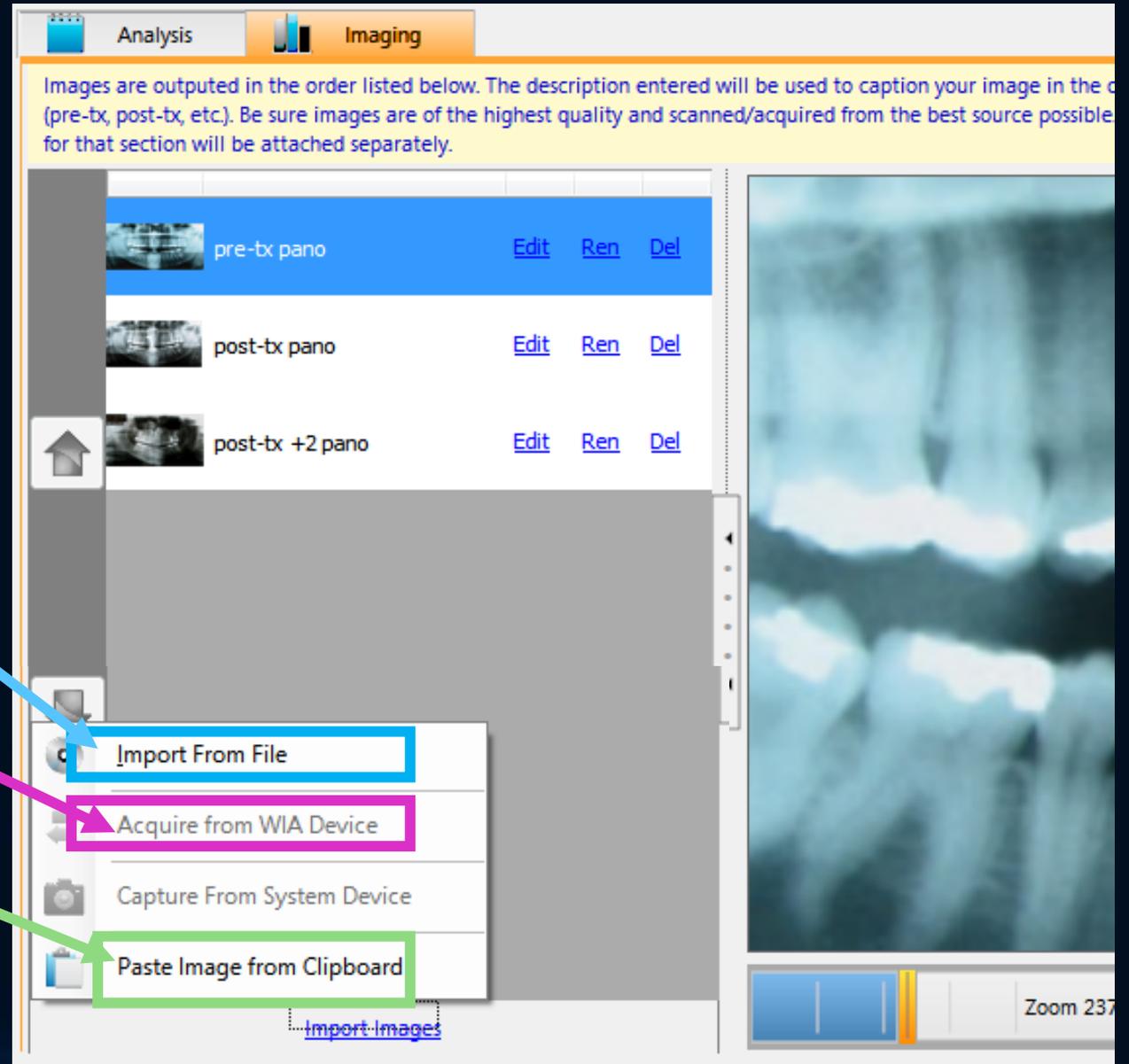


Image Importing – Import Detail

- Image Preview
- Quick Rotation
 - Detail rotation in image editor
- Image Description
 - Used in output to describe the image

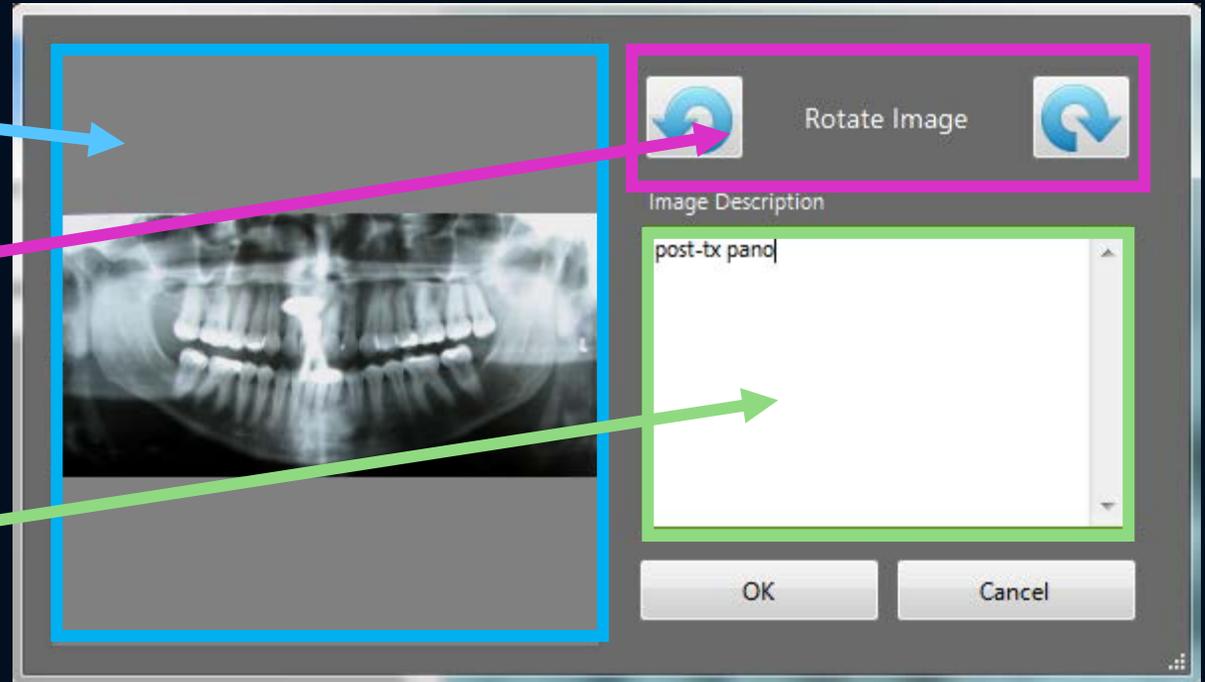


Photo Grids

- Grid Selection
- Empty Cell
 - Click to get import menu
- Cell Description
 - Describes image that belongs in cell

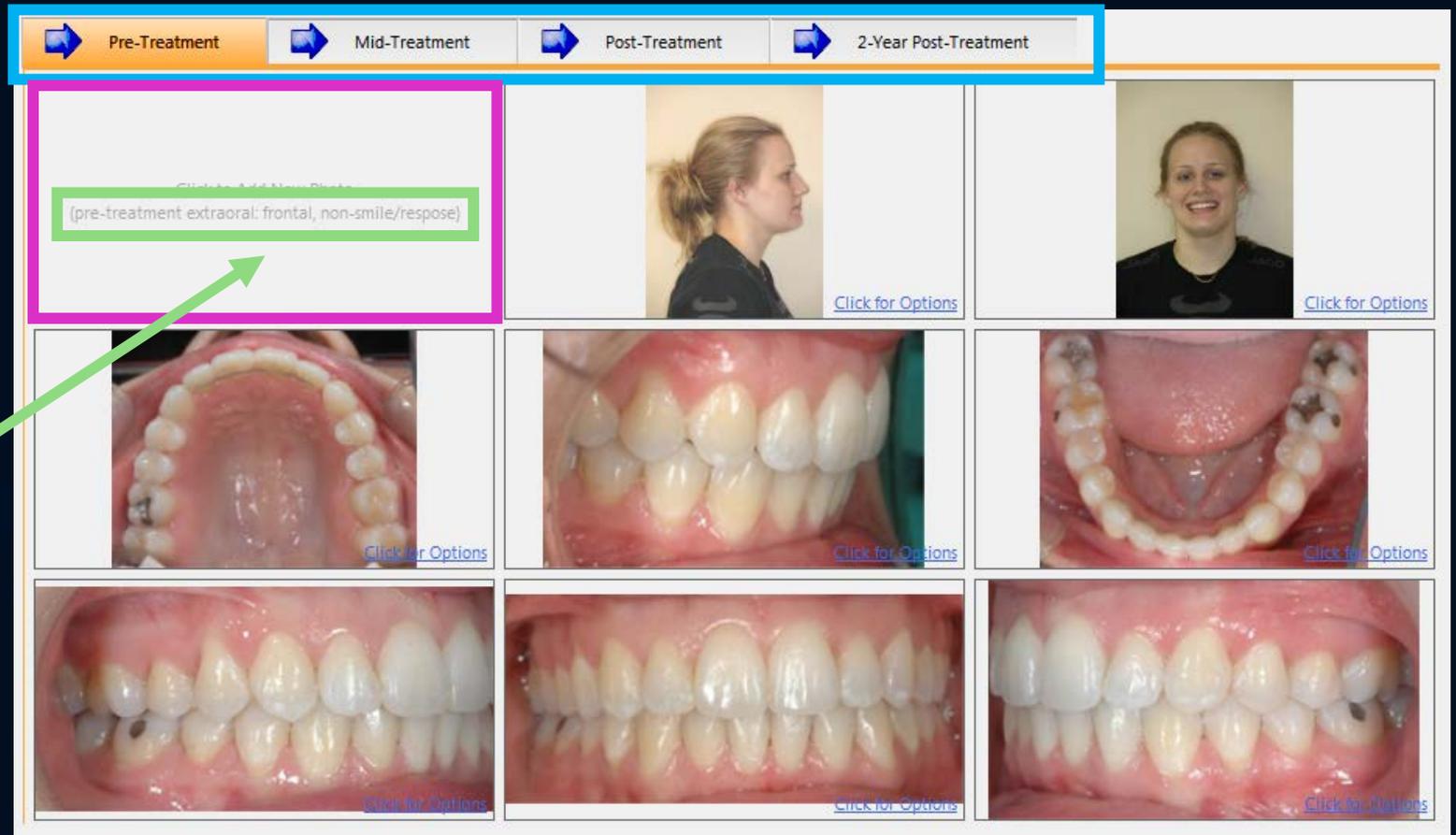


Photo Grids

- Click in cell for menu
- Import Menu
 - From file, scanner, or clipboard
- Edit Menu
 - Click in cell with an image for replace, clear, edit options
- Image changes saved immediately

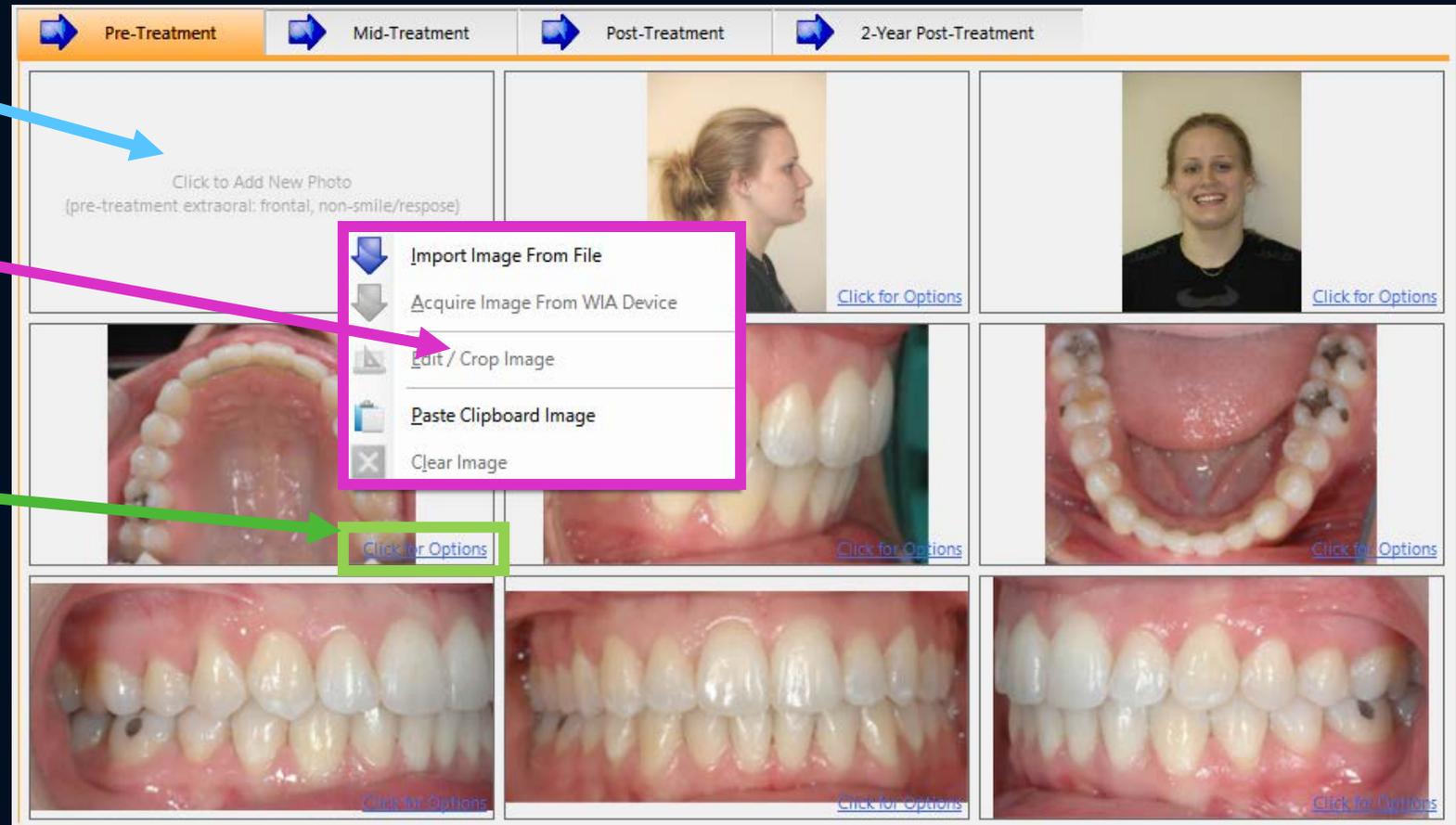


Image Editor

- Change History →
- Adjustment Tools
 - Exposure, contrast, hue, and rotation most commonly used tools
- Crop Tool →
- Can be re-edited or reverted at any time

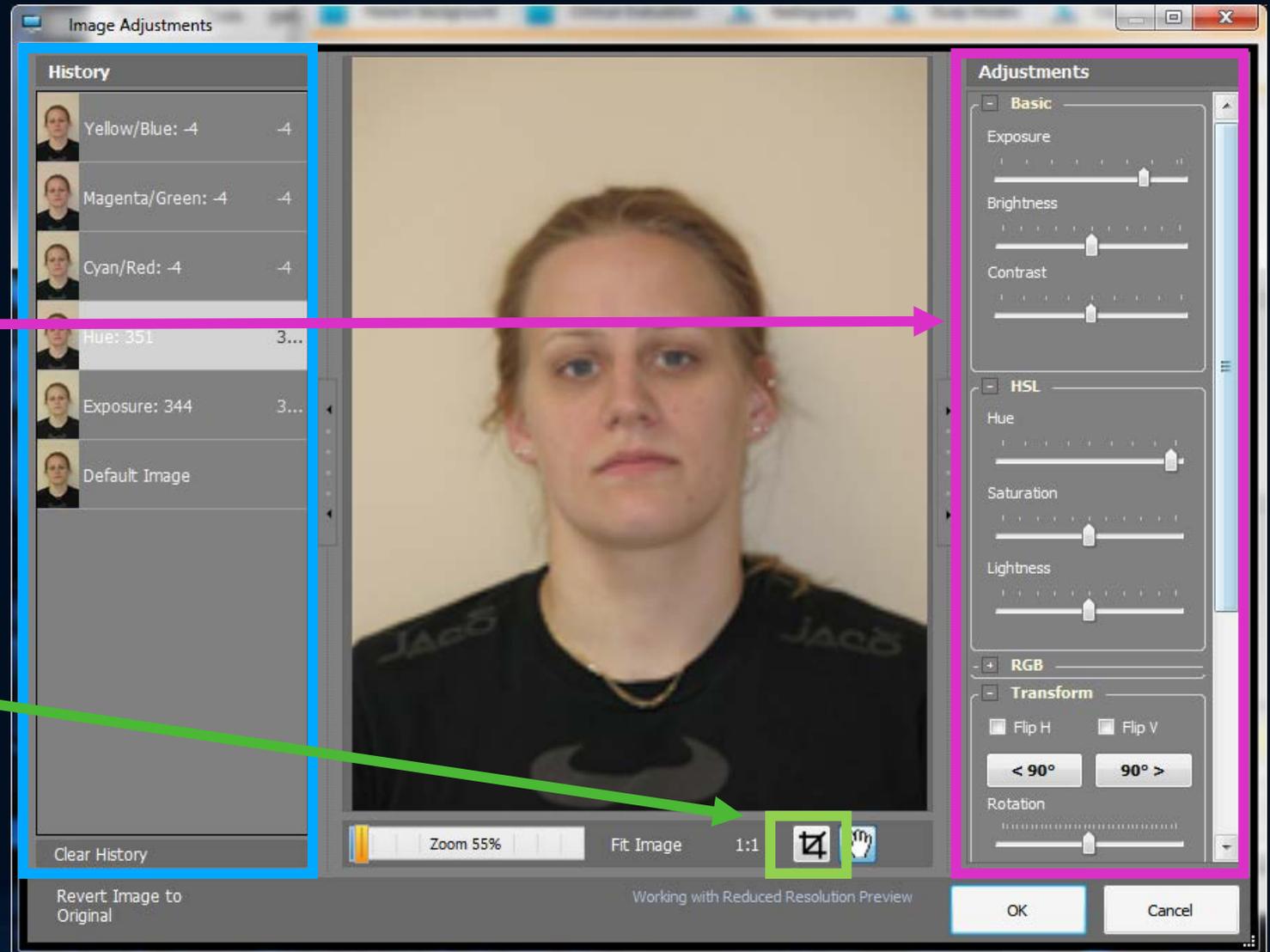
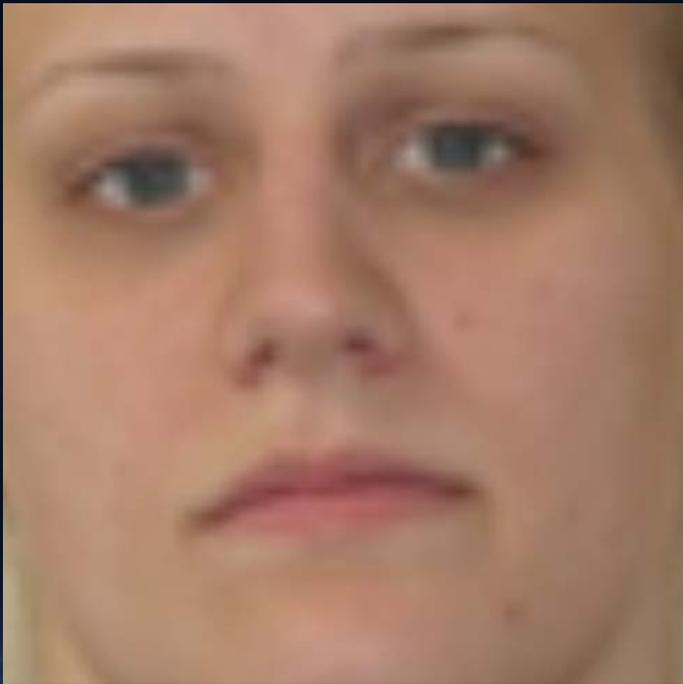


Image Quality

- 8 megapixel is plenty, useable for up to a 24x36 print
- Large files cause many issues
 - Long upload times for candidate, long download times for examiner
 - More resources to generate output, may result in out-of-memory condition
 - Large files show tiny flaws in image more, like camera shake
- Clarity, consistency, and quality hallmark of a good image
- Quality in = Quality out, cannot fix a poorly recorded image

Image Editor Can't Fix Everything!

OUT OF FOCUS



SHARPENING DOESN'T WORK

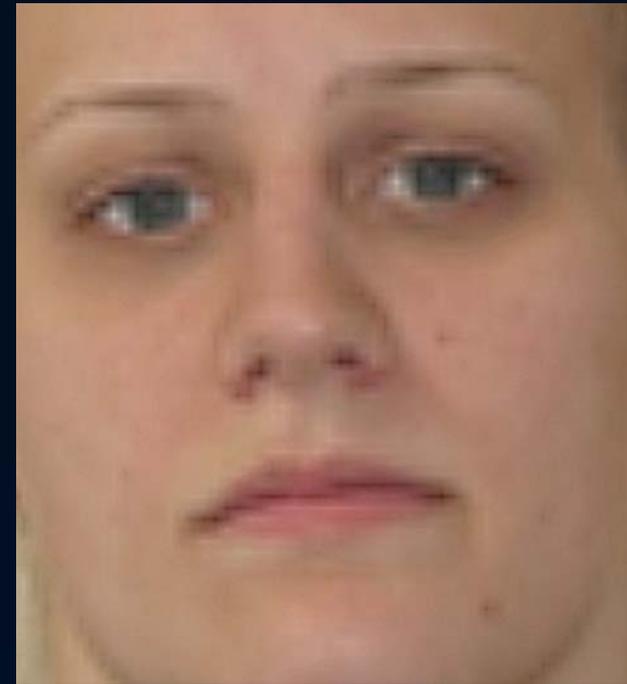


Image Editor Can't Fix Everything!

OVEREXPOSED / BLOWN OUT



DETAIL BEYOND REPAIR



Image Editor Can't Fix Everything!

UNDEREXPOSED / BLOCKED UP

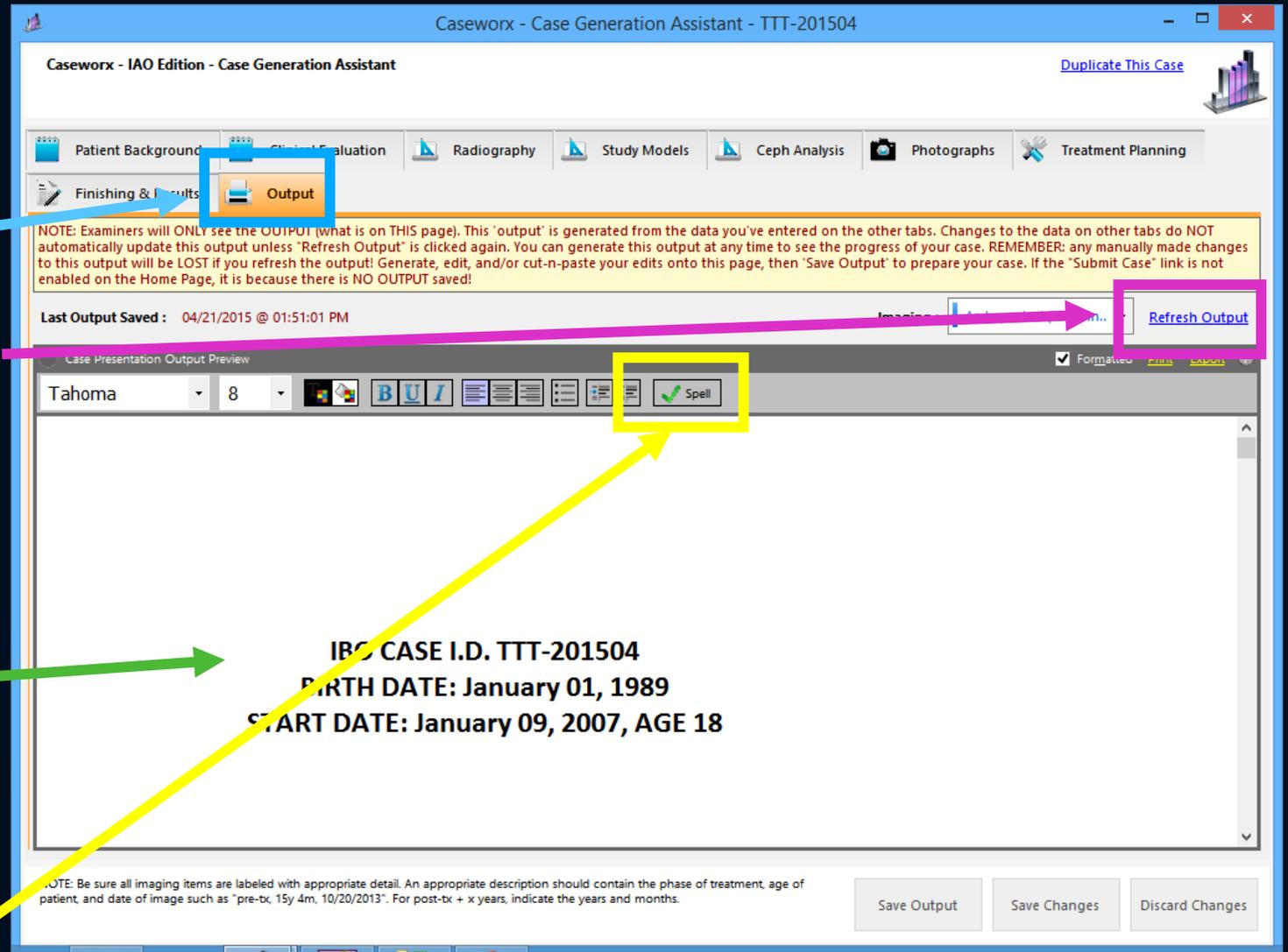


BRIGHTENING CAUSES NOISE
AND BLOW OUT HIGHLIGHTS



Generating Output Narrative

- Last section tab
- Click to generate output
 - Based on current data
 - Deletes any manual edits to previous generated output
- Output preview
 - Used to view generated narrative
 - Edit final output before submission
- Spell check!



Generating Output Narrative

- To-do page automatically generated at refresh time
- Appears at bottom of narrative output
- Check and correct missing items
- Delete To-Do list before doing final save

Last Output Saved : 6/15/2014 @ 8:40:07 PM [Refresh Output](#)

Case Presentation Output Preview Formatted [Print](#) [Export](#)

Calibri 18

TO-DO BEFORE PUBLISHING

Perform/Correct/Check the following individual items discovered during generation of this report:

- If printing, export your output and open in word processor. Apply page numbers to your document. Then, insert the page numbering into the table of contents accordingly for your output/print.
- Compile and attach all necessary (9) photographs for the Mid-Treatment series
- Compile and attach all necessary (9) photographs for the Post-Treatment series
- Compile and attach all necessary (9) photographs for the Post-Treatment + 2 years series

Check document for quality and correctness

- Check spelling and punctuation of document. Typos and missing punctuation may cost points!
- Check grammar of document. Poor grammar may cost points!
- Number pages in document and update table of contents with page numbers (if printing)

Check radiographs for labeling, clarity, and image quality. Include the following:

- A. Panoramic radiograph - Anatomic hard and soft tissue landmarks clearly visible
- B. Full Mouth series ? Anatomic hard tissue landmarks clearly visible including all periapical areas (if used)
- C. Occlusal Radiographs
- D. Any other pertinent diagnostic images (tomo, SMV, etc.)

Check cephalometric tracings for labeling, clarity, and completeness. Be sure ALL the following can be CLEARLY seen:

- A. Anatomic hard tissue landmarks

Save Output Save Changes Discard Changes

Output Narrative - Hints

- **Avoid non-standard fonts: examiner may not have font installed on their system!**
 - Use "Arial", "Times New Roman", or "Calibri" to remain standard
- **Remember, manual edits to output lost when refreshing from data**
 - Best to change original source data field in appropriate section
 - However, can edit manually and add narrative detail before FINAL save and submission
- **Images fitted to page to best utilize paper orientation**
 - Examiner will be able to view image in detail. Be sure image is saved in correct orientation in respective imaging/photo section

Output Narrative - Hints

- **No page numbering needed in table of contents**
 - Digital submission documents don't have "paging"
- **Copy/paste can also be utilized**
 - Export document to Word document, perform further editing in Word
 - Return copy from Word to Output window
 - Ctrl-A in Word to "Select All", Ctrl-C to Copy to clipboard
 - Ctrl-A in Output window to select all, Delete, then Ctrl-V to paste into Output

Caseworx

OUTPUT REVIEW



Case Functions

- Case and output editor
 - Data editor
 - Image editor
 - Output editor

- Output Viewer
 - Shows exactly what examiner will see
 - Also shows detailed score returns
 - Greyed out if no output saved

<u>Edit</u>	Output	Submit Case	<u>Delete</u>
<u>Edit</u>	<u>Output</u>	9719-15E1	Delete
<u>Edit</u>	<u>Output</u>	BDEA-6002	Delete

- Delete case file
 - Cannot delete after submission
 - Cannot be undone once deleted
- Submit/Resubmit case when ready
 - Shows validation code after submission
 - Greyed out if no output saved

Output Viewer

- Exactly what the examiner will see and use for scoring
- Shows last saved output, exactly as saved
 - Manual edits (not generated from data fields) included
- No editing capabilities
- Check carefully – once submitted, cannot be submitted again

Output Viewer

- Four sections to choose
 - Case Presentation Output
 - IBO Ceph value viewer
 - All imaging viewer
 - Images labeled by section/description
 - Scoring results
 - Shown only to candidates
 - Allows viewing details scoring results and comments from examiner

Case Presentation Output | Cephalometric Values (IBO) | Imaging | Scoring Results

Case ID Number: 1 | Presenter: DH1001

Patient's Name (or ID*): JRD-201405 (Sample Case) | Patient Birthdate: 12 / 02 / 1995

Patient Start Age: 18 | Patient Current Age: 19

IBO CASE I.D. JRD-201405 (Sample Case)
AGE: 19
BIRTHDATE: December 02, 1995

THE FUNCTIONAL AND FIXED ORTHODONTIC TREATMENT OF THIS CLASS II, DIVISION I PATIENT IS PRESENTED IN PARTIAL FULLFILLMENT OF THE REQUIREMENTS OF THE INTERNATIONAL BOARD OF ORTHODONTICS

Output Viewer

- Case details
 - Completely anonymous
 - Only shows presenter's ID and abbreviated patient ID (generated by presenter when case created)



Casework - Presentation Output - JRD-201405 (Sample Case)

Case Presentation Output Cephalometric Values (IBO) Imaging Scoring Results

Case ID Number	1	Presenter	DH1001
Patient's Name (or ID*)	JRD-201405 (Sample Case)	Patient Birthdate	12 / 02 / 1995 <input type="button" value="Cal"/>
Patient Start Age	18	Patient Current Age	19

Full Output Formatted [Print](#) [Export](#)

IBO CASE I.D. JRD-201405 (Sample Case)
AGE: 19
BIRTHDATE: December 02, 1995

THE FUNCTIONAL AND FIXED ORTHODONTIC TREATMENT OF THIS CLASS II, DIVISION I PATIENT IS PRESENTED IN PARTIAL FULLFILLMENT OF THE REQUIREMENTS OF THE INTERNATIONAL BOARD OF ORTHODONTICS

Output Viewer

- Case output
 - Shows exact copy as last saved in editor
 - Cannot be changed
 - Includes “printable” imaging and photo grids, embedded in correct section and location

Casework - Presentation Output - JRD-201405 (Sample Case)

Case Presentation Output Cephalometric Values (IBO) Imaging Scoring Results

Case ID Number: 1 Presenter: DH1001

Patient's Name (or ID*): JRD-201405 (Sample Case) Patient Birthdate: 12 / 02 / 1995 Cal

Patient Start Age: 18 Patient Current Age: 19

Full Output Formatted Print Export

IBO CASE I.D. JRD-201405 (Sample Case)
AGE: 19
BIRTHDATE: December 02, 1995

THE FUNCTIONAL AND FIXED ORTHODONTIC TREATMENT OF THIS CLASS II, DIVISION I PATIENT IS PRESENTED IN PARTIAL FULLFILLMENT OF THE REQUIREMENTS OF THE INTERNATIONAL BOARD OF ORTHODONTICS

Output Viewer

- IBO Ceph Sheet
 - Exact same as saved in editor
 - Cannot be changed
 - Check values carefully!



Casework - Presentation Output - JRD-201405 (Sample Case)

Case Presentation Output Cephalometric Values (IBO) Imaging Scoring Results

Growth Analysis		Pre Treatment	Post Treatment	+ 2 yrs
Stage Of Growth	Stage (CVMS)	Stage VI	Stage VI	Stage VI
Growth Direction	Y Axis to SN	60	62	63
	Y Axis to FH	59	60	61

Airway Analysis		Pre Treatment	Post Treatment	+ 2 yrs
Upper Airway (Nasopharynx), mm		14	14	14
Lower Airway (Oropharynx), mm		12	12	12

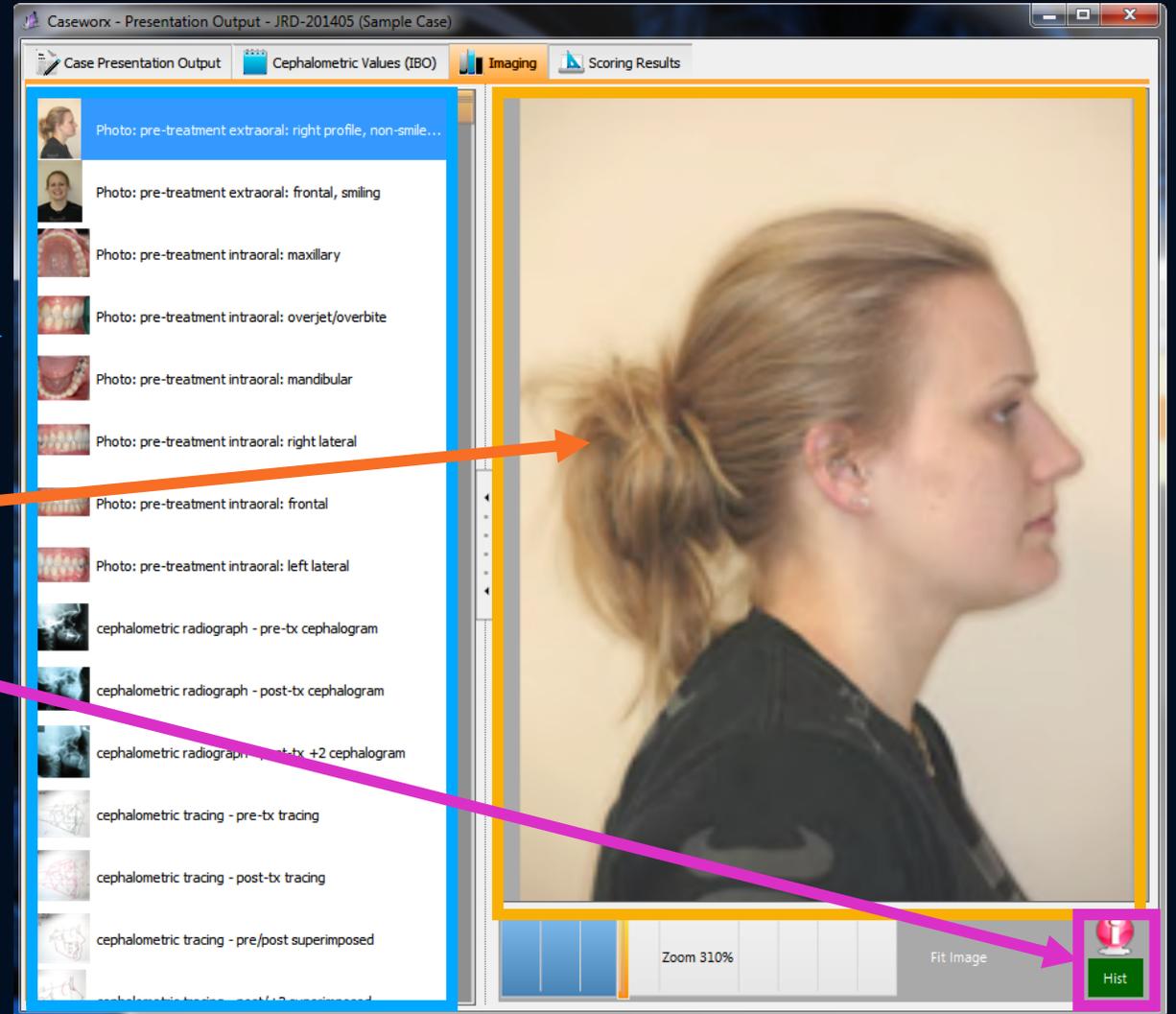
Skeletal Vertical Analysis		Pre Treatment	Post Treatment	+ 2 yrs
FMA, deg		20.5	20	22
LAFH (ANS to Mn), mm		61	61	62
UAFH-LAFH / TAFH, % Ratio		43-57%	44/56	44/56
SN to GoGn (Steiner)		28	27	29

Skeletal Sagittal Analysis		Pre Treatment	Post Treatment	+ 2 yrs
Condylion to A pt (Mx Length), mm		95	96	95
Condylion to Gn (Mn Length), mm		69	68	69
Difference (Mn Len - Mx Len), mm		26	28	26
Wits (Jacobson), mm		+1	-1	0.5
ANB, deg		+4	+2	+3

Dento-Alveolar Relations		Pre Treatment	Post Treatment	+ 2 yrs
IMPA (Incisor Mn Plane Angle), deg		96	91.5	90.5
Interincisal Angle (Upper 1 - Lower 1), deg		126.5	128	127

Output Viewer

- Imaging Viewer
- Shows all images, labeled by section and description
- Imaging detailed viewport
- Image modification history viewer
 - Enabled if image has been edited
 - Shows journal of changes to image



Output Viewer

- Scoring Results
- Only visible to candidate
- Choose examiner position to show details
- Examiner comments in detail for each section
- Print a copy of the score sheet

Caseworks - Presentation Output - JRD-201405 (Sample Case)

Case Status : assigned

Examiner Note : -- no general exam notes listed --

Show Results for Examiner : 1 - first random assigned

IBO Case Presentation Scoring Sheet

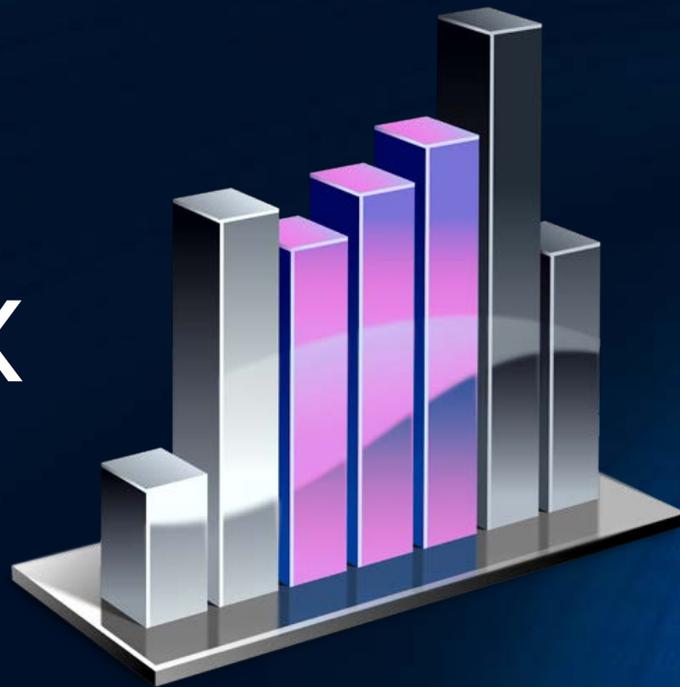
Case ID: JRD-201405 (Sample Case) Candidate Record ID: 1

Section I: Problem List	2/2
<i>Missing radiographic and chin findings</i>	
Section II: History	1/1
Section III: Cephalometric Quality	1/2
<i>Tongue ring not removed in post-tx cephalogram and earrings not removed in post+2 cephalogram</i>	
Section IV: Cephalometric Quality	2/2
<i>Tongue ring not removed in post-tx radiographs, poor angulation of patient resulted in poor quality of post+2 cephalogram</i>	
Section V: Photographic Quality	1/2
<i>Tongue ring not removed in post-tx photographs</i>	
Section VI: Study Models	2/2
Section VII: Tracings, IBO Summary, & Diagnosis	30/30
Ceph Points	10/10
<input checked="" type="checkbox"/> sella	<input checked="" type="checkbox"/> nasion
<input checked="" type="checkbox"/> gonion	<input checked="" type="checkbox"/> pogonion
<input checked="" type="checkbox"/> orbitale	<input checked="" type="checkbox"/> condylion
<input checked="" type="checkbox"/> B point	<input checked="" type="checkbox"/> menton
<input checked="" type="checkbox"/> ANS	<input checked="" type="checkbox"/> PNS
IBO Summary	10/10
1. Growth: Stage/Direction	2
2. Skeletal-Vertical	2
3. Skeletal-Longitudinal	2
4. Dental Relations	2
5. Soft Tissue Profile	2
Diagnosis/Case Evaluation	10/10

Print Scoring Report

Caseworx

CASE SUBMISSION



Case Functions

- Case and output editor
 - Data editor
 - Image editor
 - Output editor

- Output Viewer
 - Shows exactly what examiner will see
 - Also shows detailed score returns
 - Greyed out if no output saved

<u>Edit</u>	Output	Submit Case	<u>Delete</u>
<u>Edit</u>	<u>Output</u>	9719-15E1	Delete
<u>Edit</u>	<u>Output</u>	BDEA-6002	Delete

- Delete case file
 - Cannot delete after submission
 - Cannot be undone once deleted
- Submit/Resubmit case when ready
 - Shows validation code after submission
 - Greyed out if no output saved

Case Submission

- Available when output has been saved and logged in online

- No output, cannot submit
- Already submitted, has validation code from server
- Has output, not submitted yet
- Previously submitted, ready to re-submit case (if necessary)

Edit	Output	Submit Case	Delete
Edit	Output	9719-15E1	Delete
Edit	Output	BDEA-6002	Delete
Edit	Output	Submit Case	Delete
Edit	Output	Re-Submit (BB41-9128)	Delete

Case Submission

- Enter account password and check verification box
- Be sure Internet connection is reliable and consistent
- Press "Submit Case" to package, encrypt, and submit case to server
- Not officially accepted unless server responds with verification code (email sent!)

Caseworkx - IAO Edition X

Submit Finalized Case Output

Case submissions cannot be undone once submitted. Be sure that you have reviewed your case, information, images, and details. Also, be sure that you have gone through your "To-Do List" at the end of the output to be sure that all noted issues have been resolved.

Enter your account password to verify your account and begin case submission. The submission can take a few minutes, be patient while the case submits! NOTE that your case submission is not successful or complete without a returned VALIDATION CODE!

Case ID: 11 - NDT-201503

Account Password:

Overall Progress:

Packaging Progress:

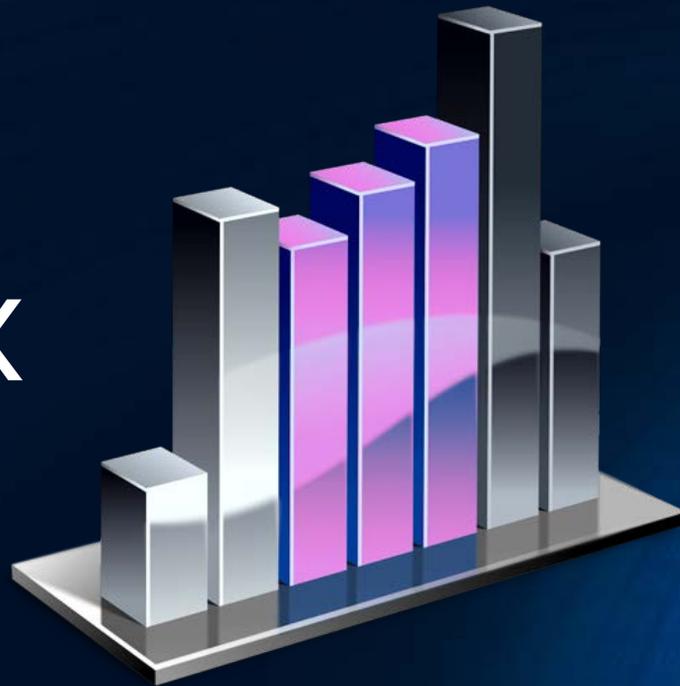
Submit Progress:

Ready To Submit

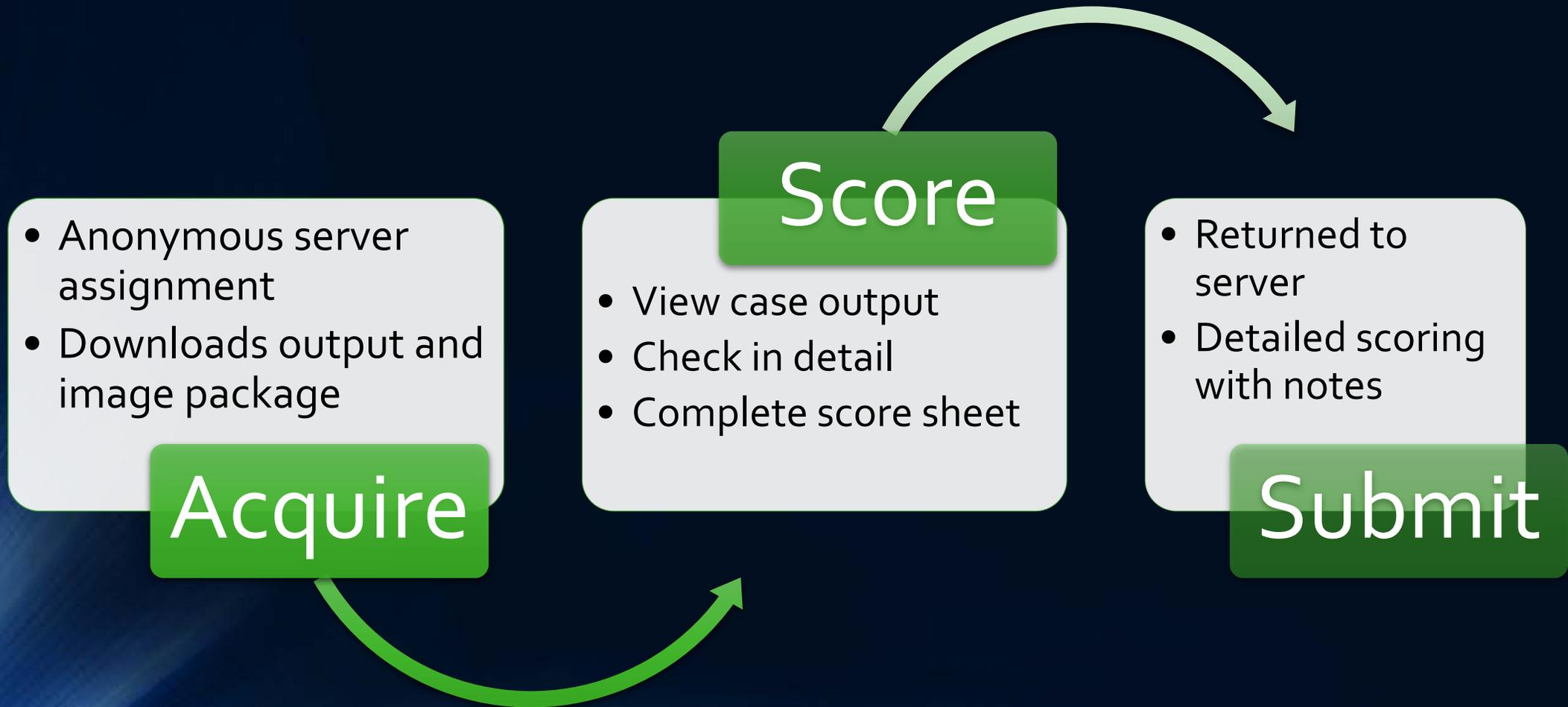
I have verified my case and am ready to submit

Caseworx

SCORING



Examiner Case Process



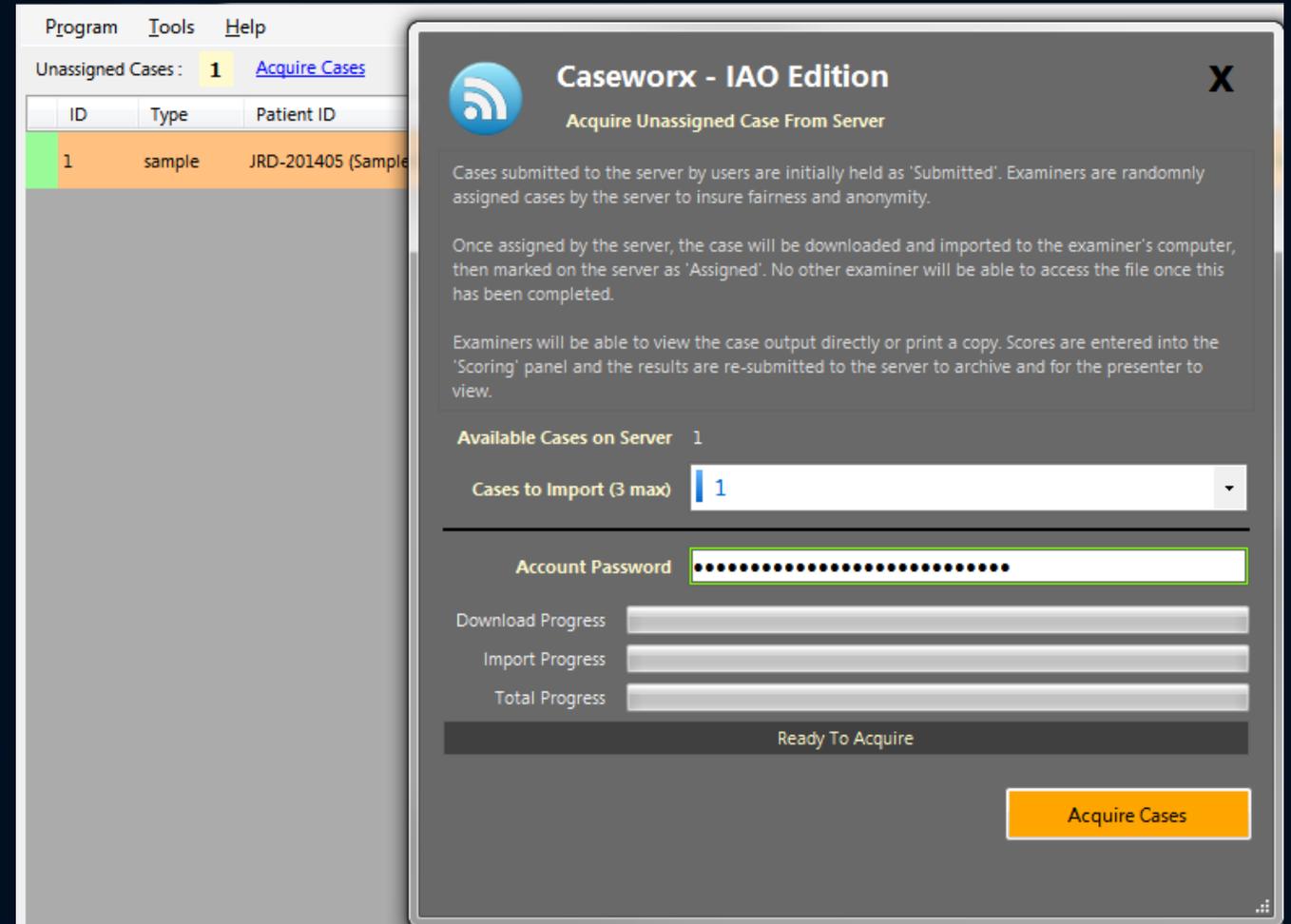
Auto-Case Assignment Score Basis

- Two passing = Passed
- Two failing = Failed
- 1 pass, 1 fail = third assignment

	First Examiner Score	Second Examiner Score	Alt Examiner Score
Passed	71	85	---
Passed	65	78	73
Failed	62	59	---
Failed	73	59	68

Case Assignment

- No name or ID when retrieving
- Server random assignment
- Examiner retrieves case package as generated
- Decrypted and imported to examiner's computer



The screenshot shows the Caseworkx - IAO Edition software interface. On the left, a table displays unassigned cases:

ID	Type	Patient ID
1	sample	JRD-201405 (Sample

On the right, a dialog box titled "Caseworkx - IAO Edition" is open, showing the "Acquire Unassigned Case From Server" window. The dialog includes the following information:

- Available Cases on Server: 1
- Cases to Import (3 max): 1
- Account Password: [Redacted]
- Download Progress: [Progress bar]
- Import Progress: [Progress bar]
- Total Progress: [Progress bar]
- Status: Ready To Acquire
- Acquire Cases button

Scoring Screen

Case ID Number: 1
Presenter: DH1001
Patient's Name (or ID*): JRD-201405 (Sample Case)
Patient Birthdate: 12 / 02 / 1995
Patient Start Age: 18
Patient Current Age: 19

IBO CASE I.D. JRD-201405 (Sample Case)
AGE: 19
BIRTHDATE: December 02, 1995

THE FUNCTIONAL AND FIXED ORTHODONTIC TREATMENT OF THIS CLASS II, DIVISION I PATIENT IS PRESENTED IN PARTIAL FULLFILLMENT OF THE REQUIREMENTS OF THE INTERNATIONAL BOARD OF ORTHODONTICS

DOCTOR ID CODE: DU1004

Presenter: DH1001

Section 1 - Clinical, Complaint, Evaluation
Score (2): 2
Notes: Missing radiographic and chin findings

Section 2 - Histories
Score (1): 1
Notes:

Section 3 - Ceph Radiographs
Score (2): 1
Notes: Tongue ring not removed in post-tx cephalogram and earrings not removed in post+2 cephalogram

Section 4 - Pano/FMX Radiographs
Score (1): 0
Notes: Tongue ring not removed in post-tx radiographs, poor angulation of patient resulted in poor quality of post+2

Section 5 - Photographs
Score (2): 1
Notes: Tongue ring not removed in post-tx photographs

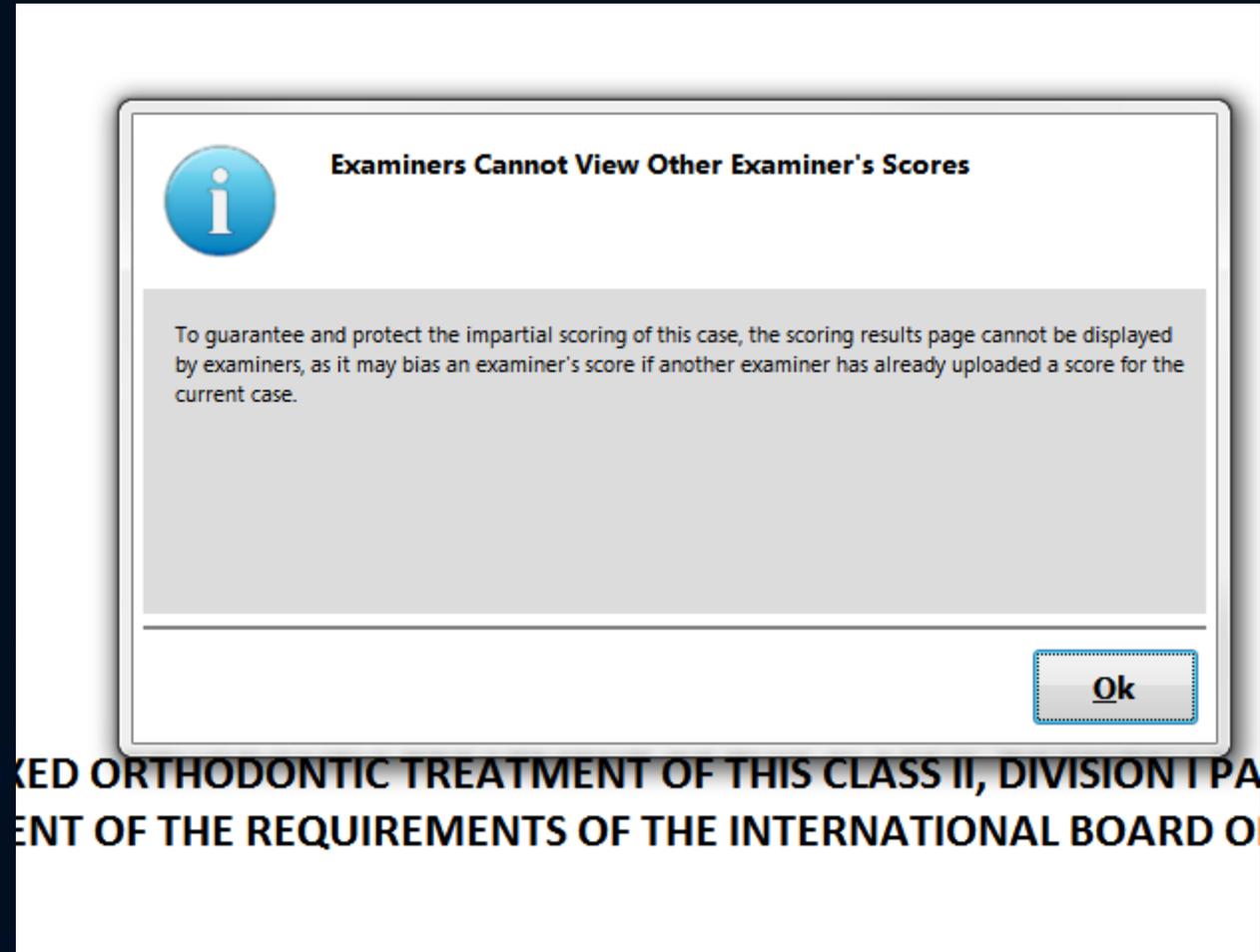
Section 6 - Study Models
Score (2): 2
Notes:

Grand Total: 90

Clear Save Print Report

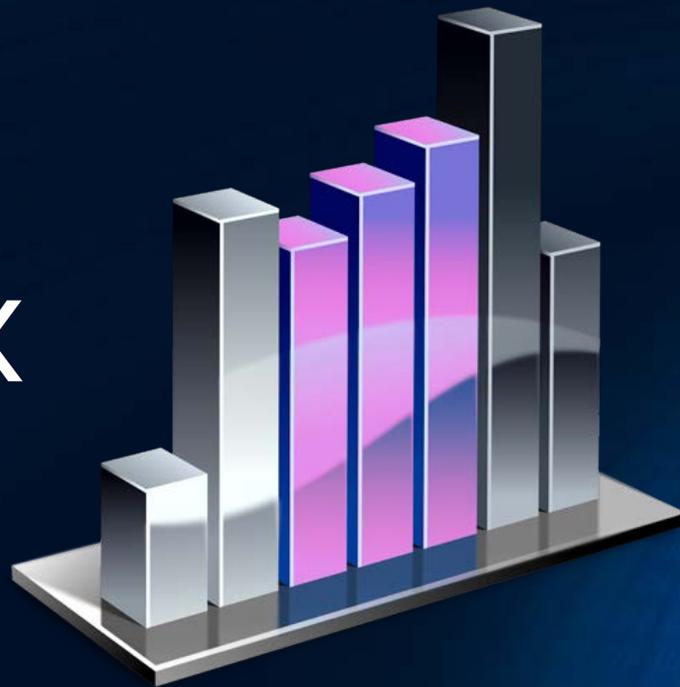
Scoring Screen

- Examiners cannot view other scores or results
- Examiners do not know who other assigned examiner(s) is/are



...KED ORTHODONTIC TREATMENT OF THIS CLASS II, DIVISION I PA
...ENT OF THE REQUIREMENTS OF THE INTERNATIONAL BOARD O

Caseworx



Caseworx

- Download jklsoftware.com
 - Choose Products -> Caseworx (jklsoftware.com/caseworx)
- Worldwide submission at anytime
- Anonymity of case
- Removes formatting errors and missed data
- Concentrate on quality data
- Retrieve results quickly and easily

JKL Software Caseworx

Nelson Mark, (nel@jklsoftware.com)
<http://jklsoftware.com>