AutoContour

Quick Start Guide
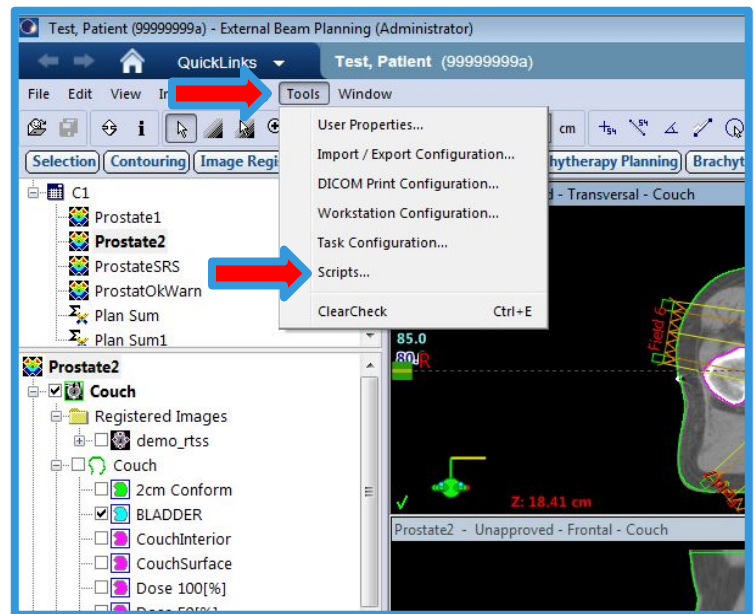
Rev 1.0

RADformation

Accessing AutoContour Through ClearCheck

This workflow applies for Eclipse TPS v15.5+
(For older versions of Eclipse or other TPS, skip to step #7)

1. Open the desired patient in the Eclipse TPS. Prior to opening ClearCheck, ensure the patient has a structure set.
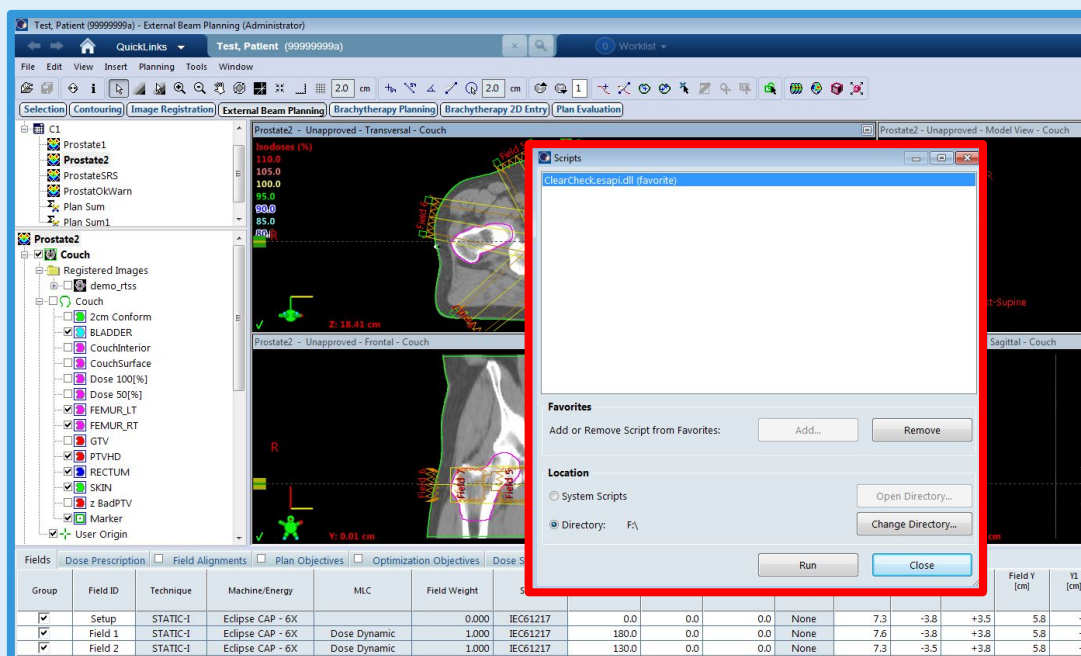
2. Click **Tools | Scripts**
   a. Alternatively, with Eclipse v15.5+, a script can be associated with a "Favorite" hot key that will automatically launch that script. This can be setup via the Eclipse Scripts window **Favorites | Add** - for example, shown right, Ctrl+E will automatically open ClearCheck.
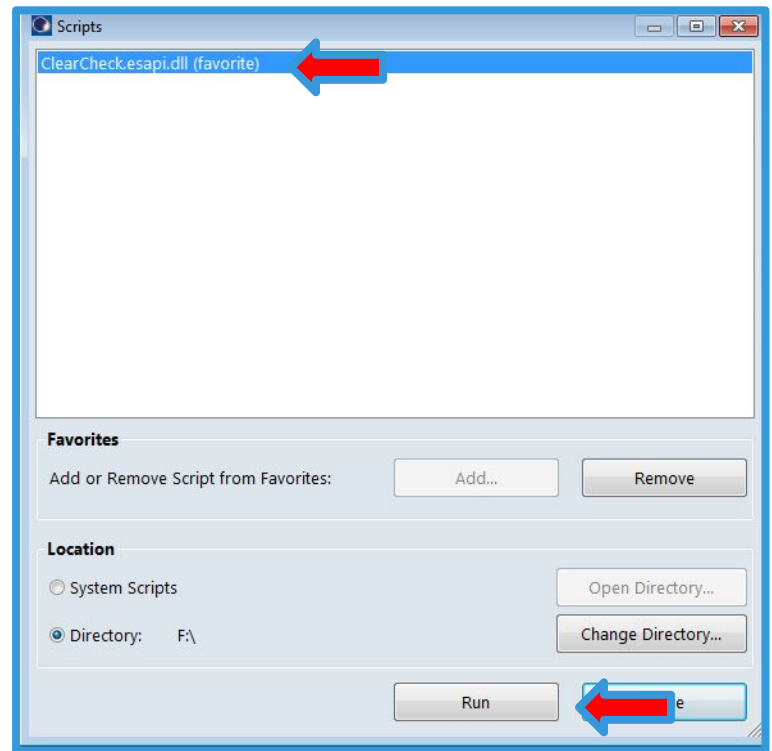

3. The Scripts folder will open.
   a. Note: If you have setup & utilize a hot key, the Scripts window will not open - ClearCheck will open automatically when you use hot keys. Proceed to step 5.
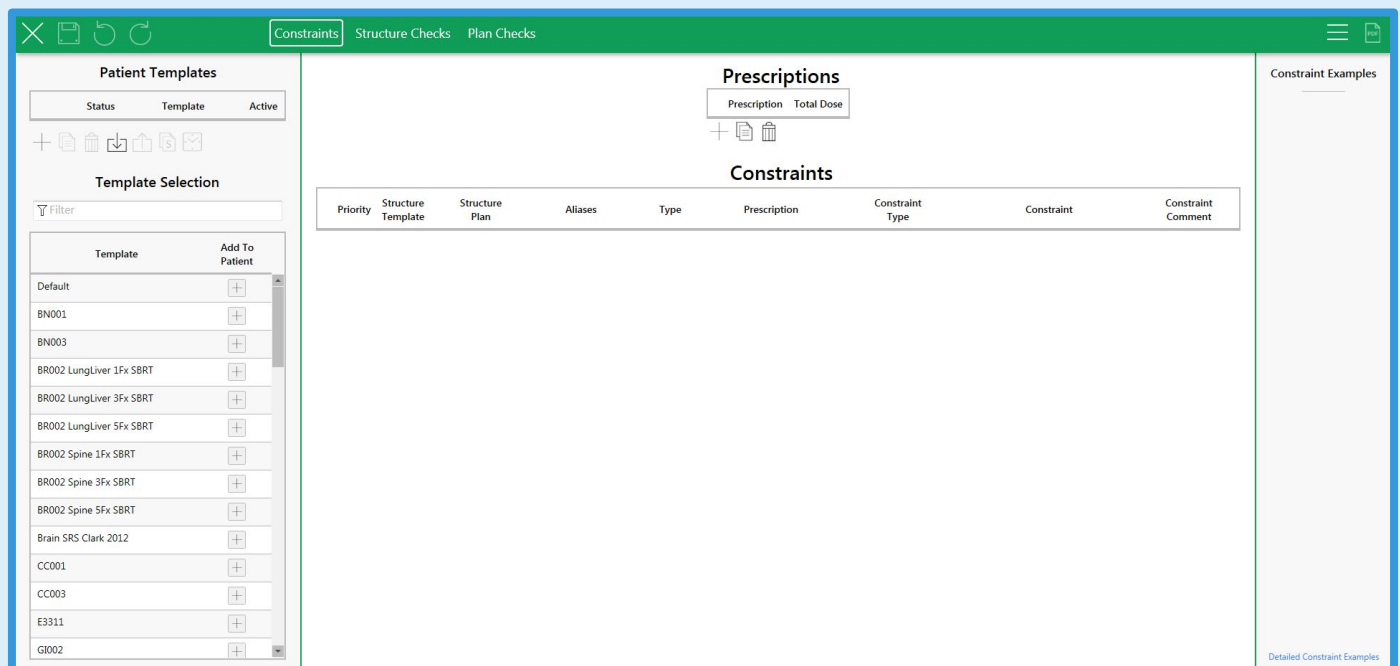
4. Highlight "ClearCheck.esapi.dll" in the Scripts window and click **Run**.

   a.   If ClearCheck is not shown, locate the file in the System Scripts folder or click Change Directory to locate the file. If you do not know the location, please ask your department ClearCheck administrator for the location.
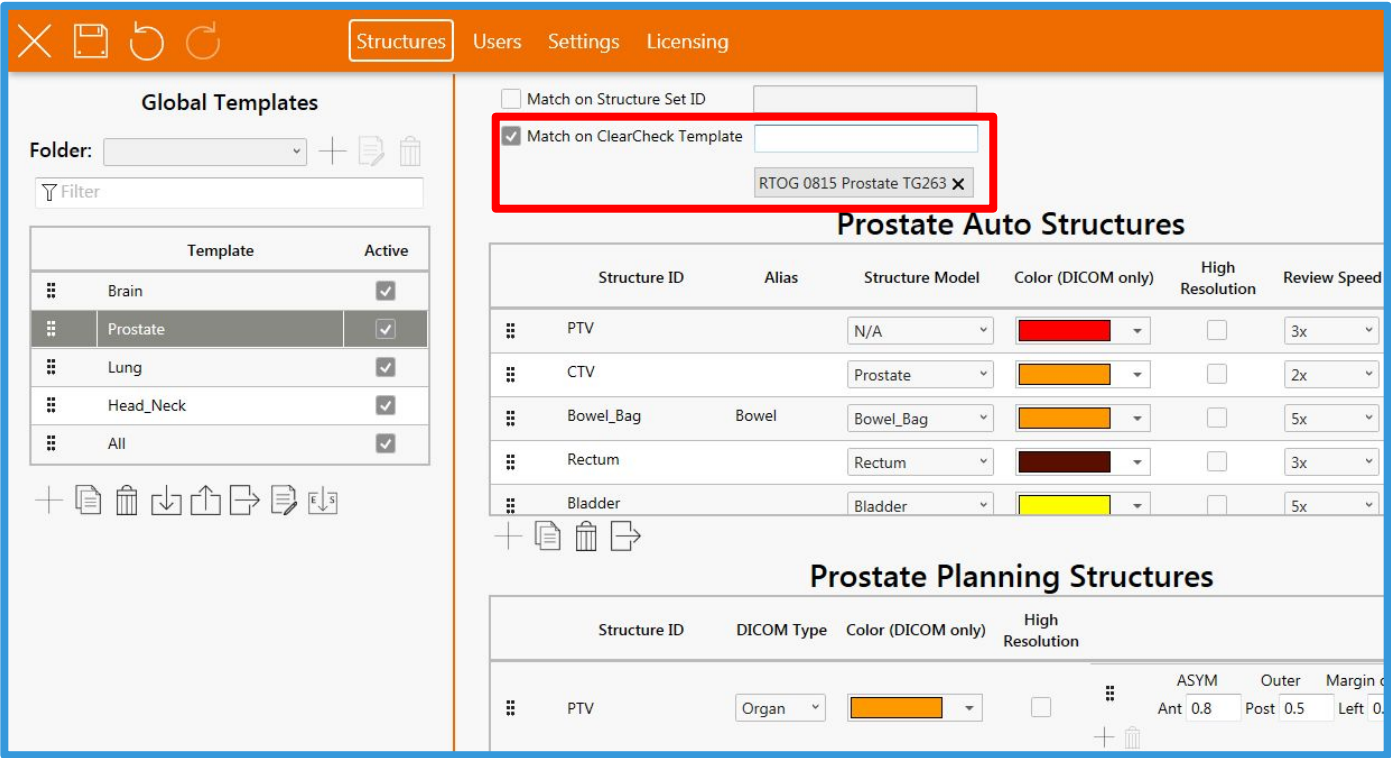
5. ClearCheck launches on top of Eclipse, as a plug-in, without having to export data or open another program. For a new patient, it will open directly into the **Template Manager** for initial template selection.
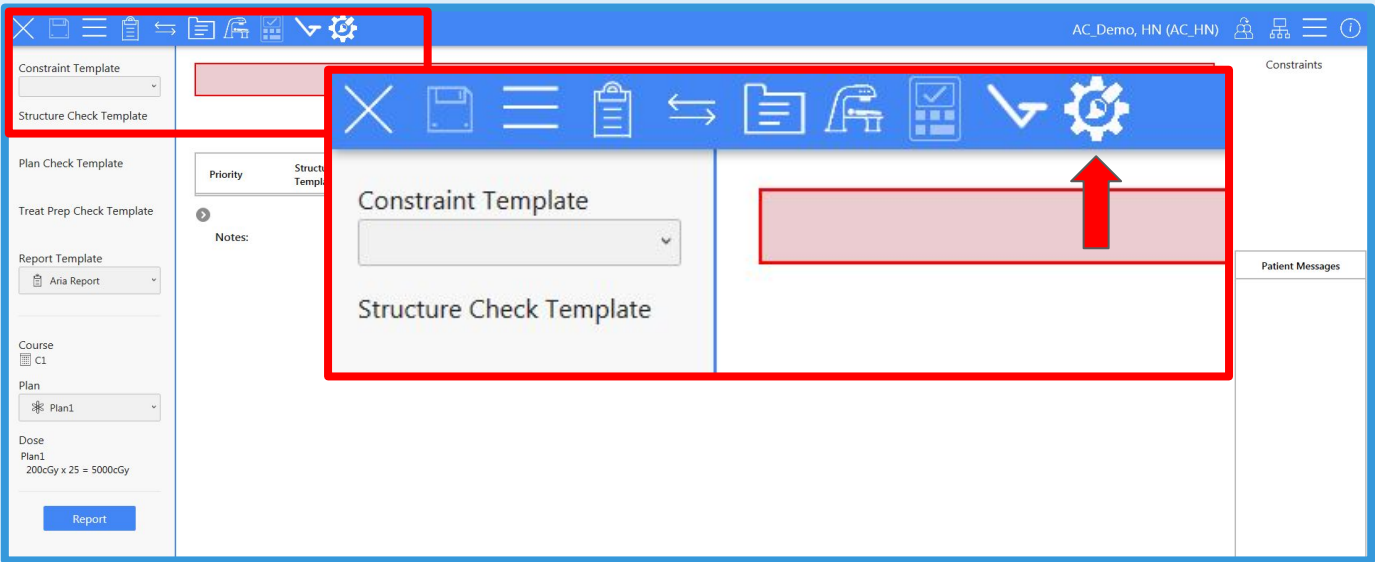
Note: A template is not required to run AutoContour however additional automation can be configured linking AutoContour structure templates with ClearCheck dose constraint templates in AutoContour Admin.
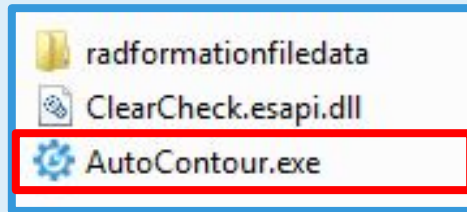
Preview of AutoContour Admin:

6. Select the AutoContour icon in the ClearCheck analysis window. Proceed to step 11.
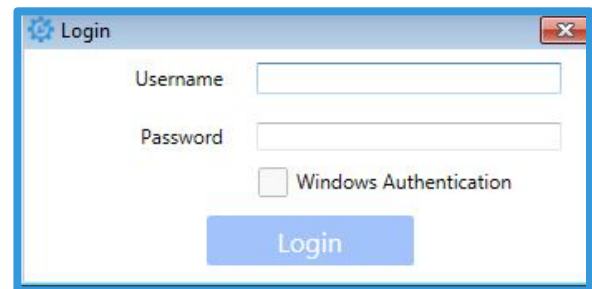
AutoContour Workflow with DICOM Export

7. Save RTImage and/or RTStruct files in the desired folder.

8. From within the installation location of your ClearCheck installation, proceed to the **AutoContour.exe** file and double-click to launch the application
*(Note: This is typically installed on your Eclipse Image server in the Published Scripts folder. A quick way to access the PublishedScripts folder within Eclipse is to go to **Tools | Scripts | Open Directory**.)*
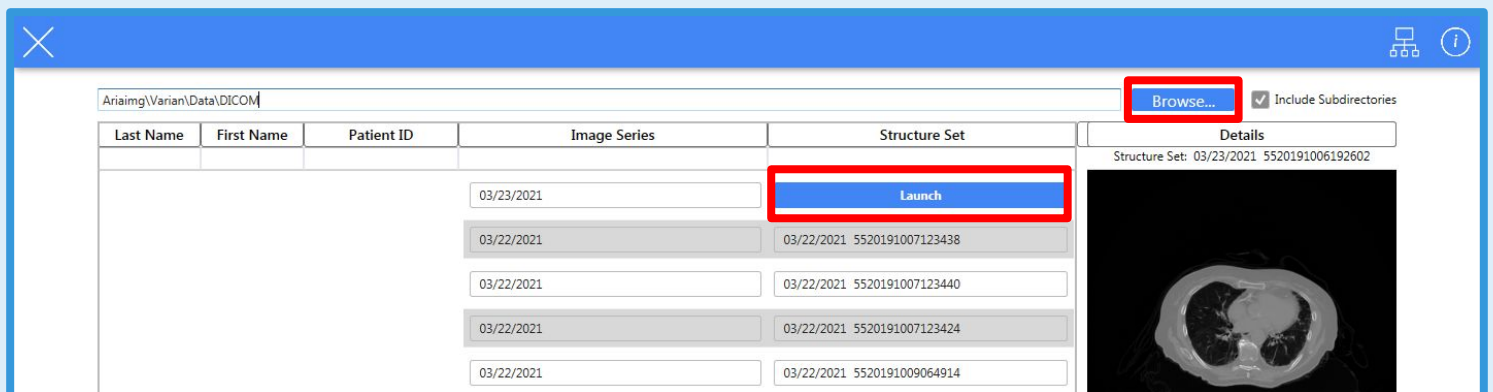

9. Sign in using your AutoContour username and password.
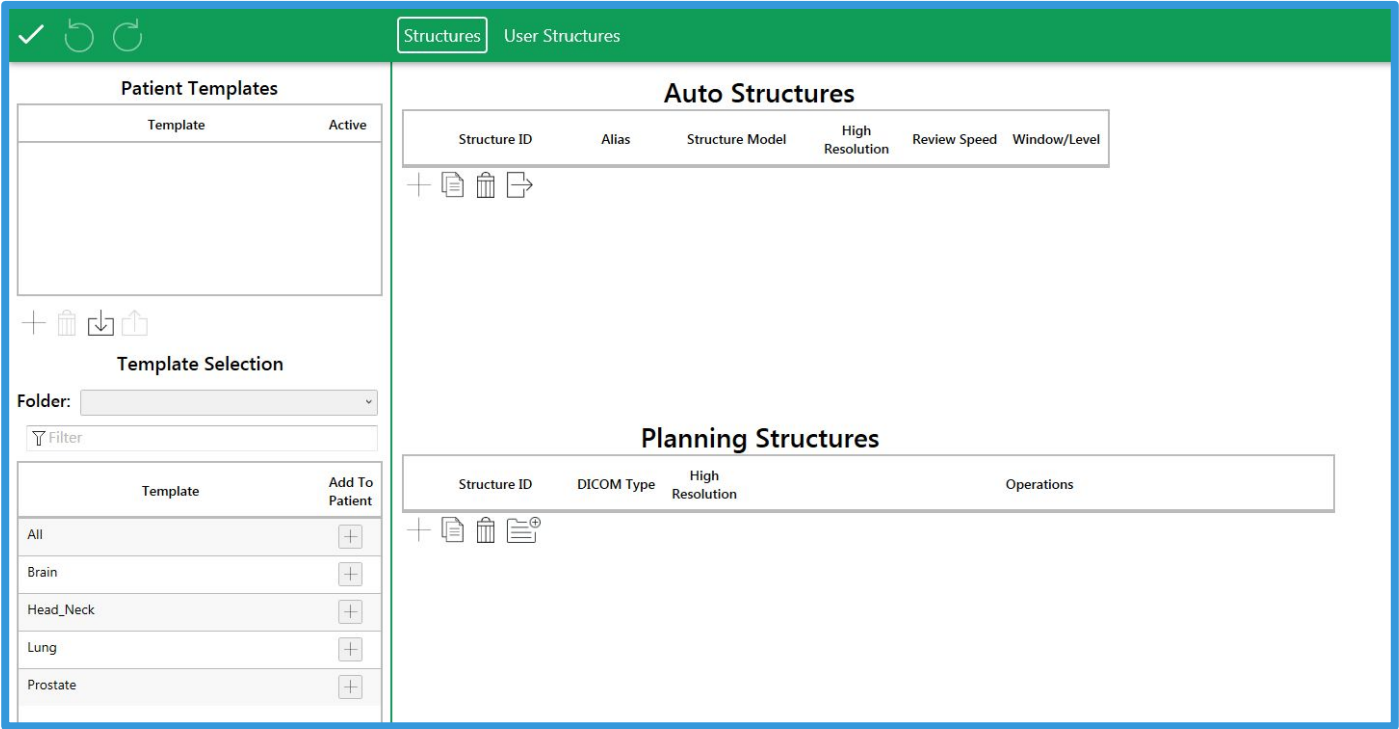
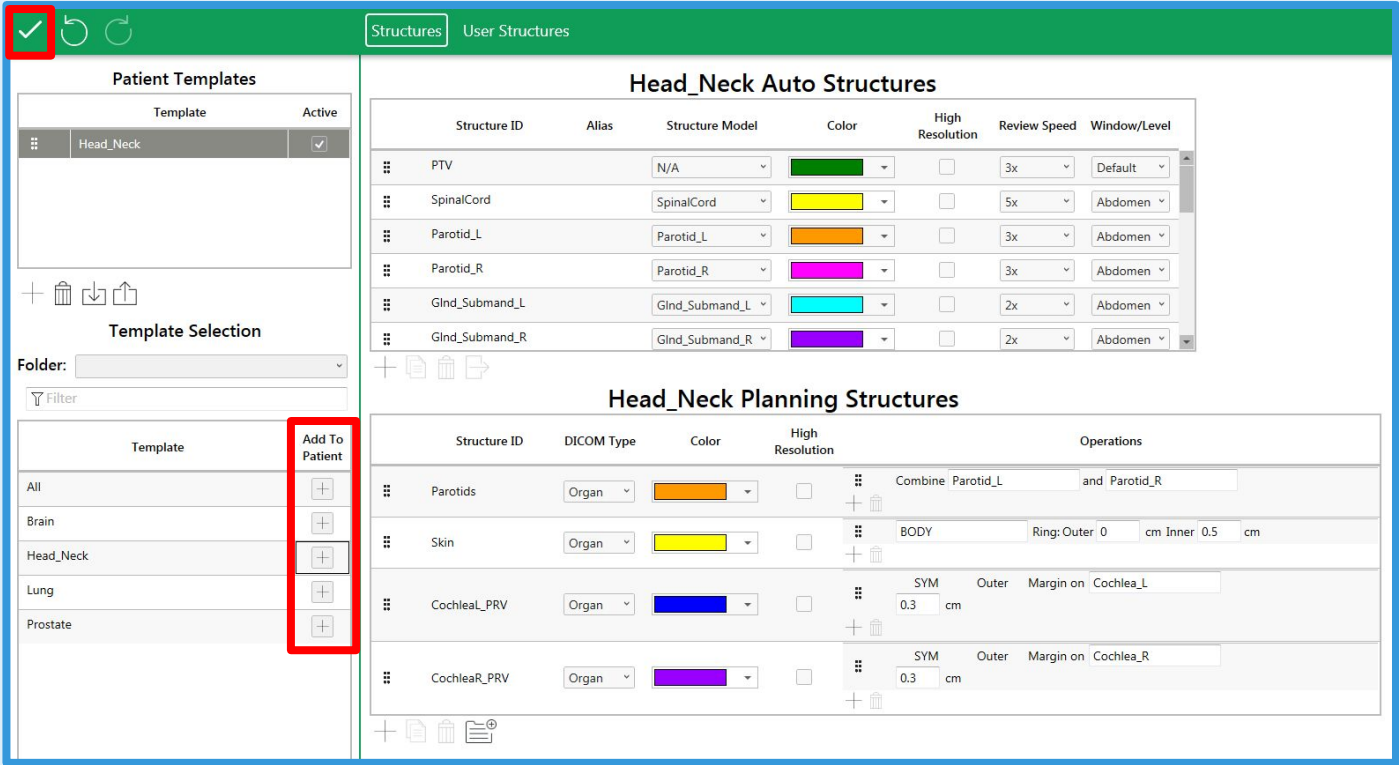Usernames and passwords are created in **AutoContour Administration**.

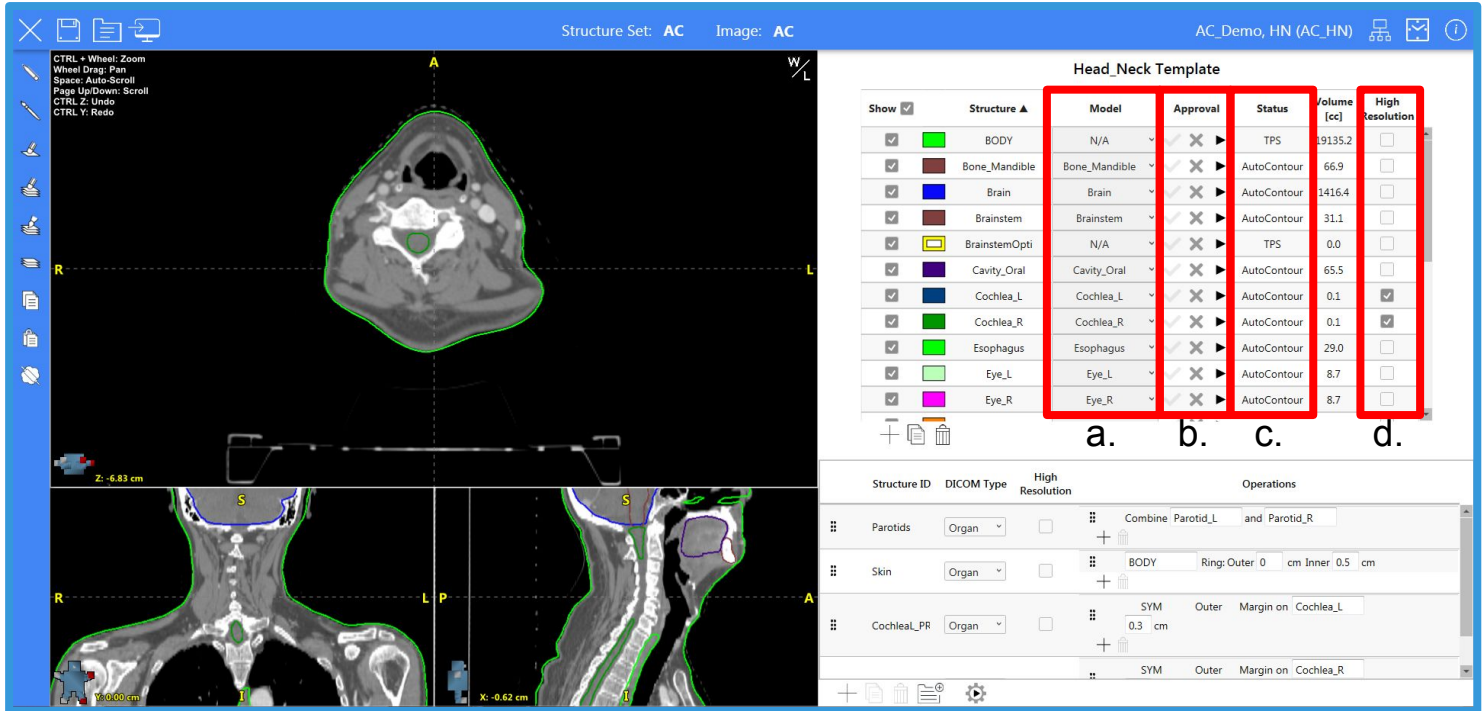10. **Browse** to the files that were saved. Click **Launch** on the desired data set.

11. If AutoContour doesn't load a template automatically, the Template Manager will launch for initial template selection. Skip to step 13 if templates are linked.

12. Select a template to load structure names, planning structures, and default settings. Click on the check icon to proceed to the AutoContour workspace.
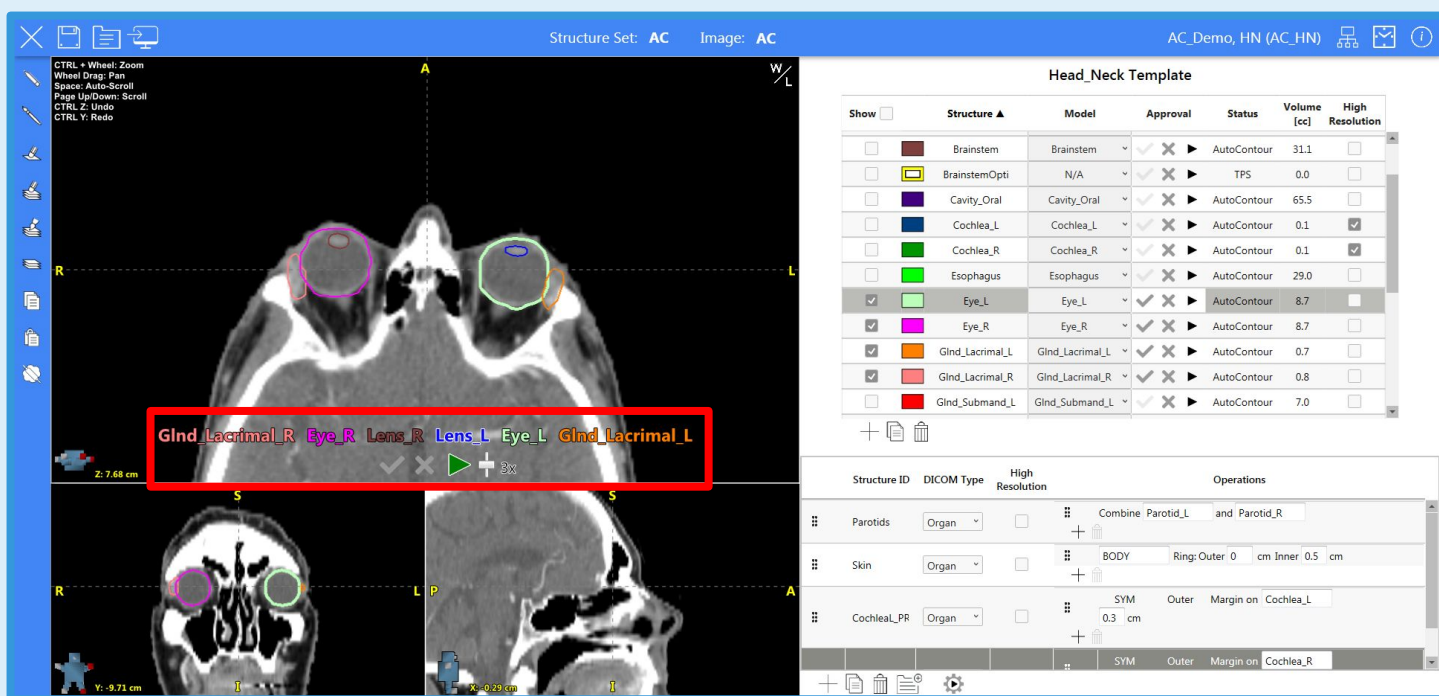
13. AutoContour is an AI tool that uses models trained and maintained by Radformation. Data is anonymized and encrypted and then sent to the cloud for contouring. AutoContour may take up to 2 minutes to process contours.

a. **Model**: AutoContour automatically assigns a model name based on structure ID. If a model is not assigned, select the appropriate model from the **Model** dropdown menu. *Note: AutoContour can contour 40+ OARs*

b. **Approval**: A contour will need to be approved in order to be exported.
   i. Click the ▶ icon to start the review process
   ii. Click check to approve the contour
   iii. Click X to reject the contour

c. **Status**: As AutoContour completes contours, the **Status** column will update. Options include:
   i. TPS: a structure imported from the treatment planning system
   ii. AutoContour: a structure generated by AutoContour
   iii. Processing: AutoContour is generating a structure but it isn't complete yet

d. **High Resolution**: Check this box if the structure should be exported into Eclipse as high resolution. This can be set as a default for specific structures in Admin.

14. AutoContour has an option to review structures in groups. When reviewing structures, the CT view will update to include review options.

After initiating review on a structure, AutoContour will automatically:
   a.   Turn off all structures except for those being reviewed
   b.   Center the CT view on the structures
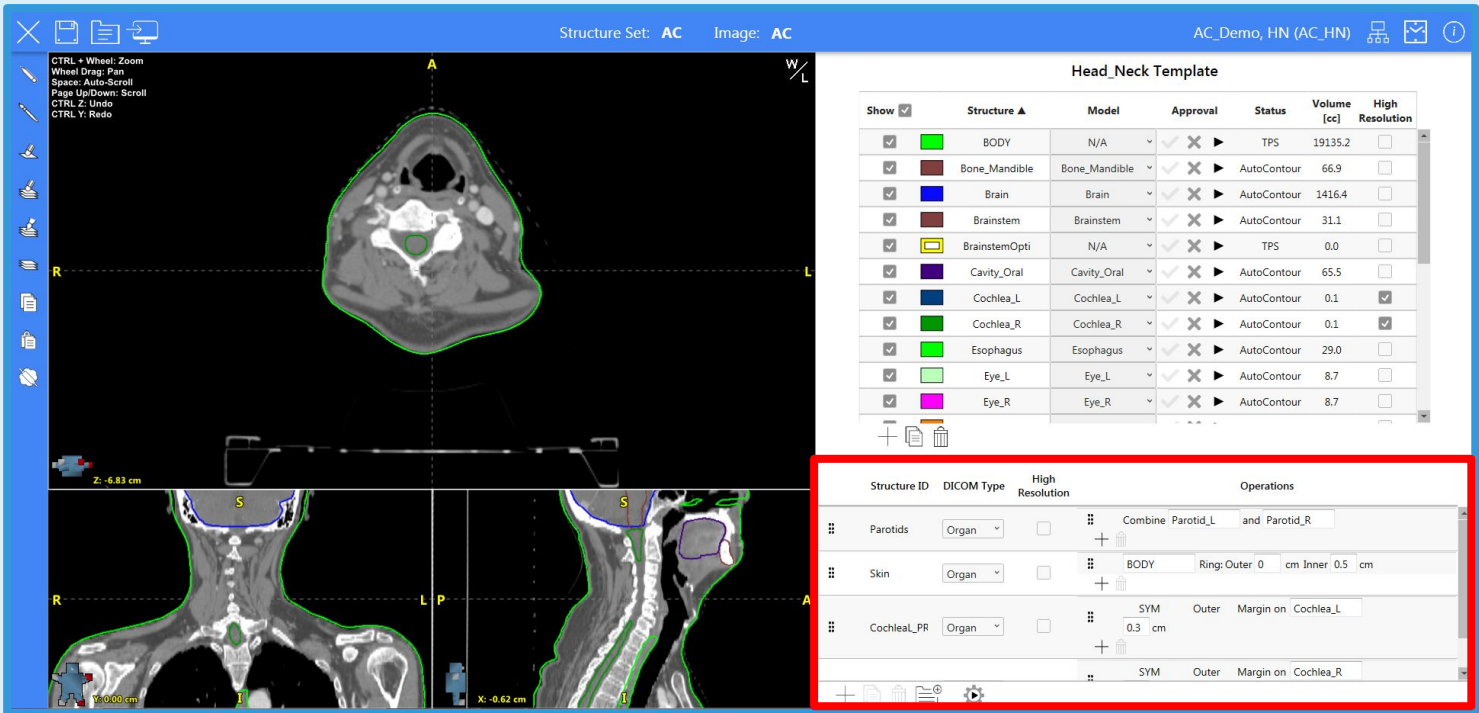   c.   Set the window/level to presets for the specific group

15. To approve a structure, click on the check icon in the Approval column or in the CT viewer space. Repeat for all structures to be exported.
   Note: Clicking on the check in the CT viewer space will approve all structures in the group.

16. AutoContour can create planning structures in addition to OARs. Planning structures can be automated in AutoContour templates and edited on a per-patient basis.

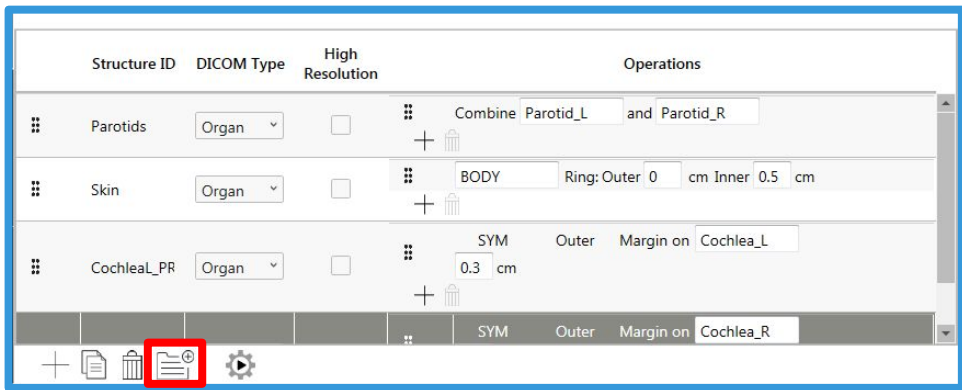*Note: it is recommended to review and approve OARs prior to creating planning structures.*

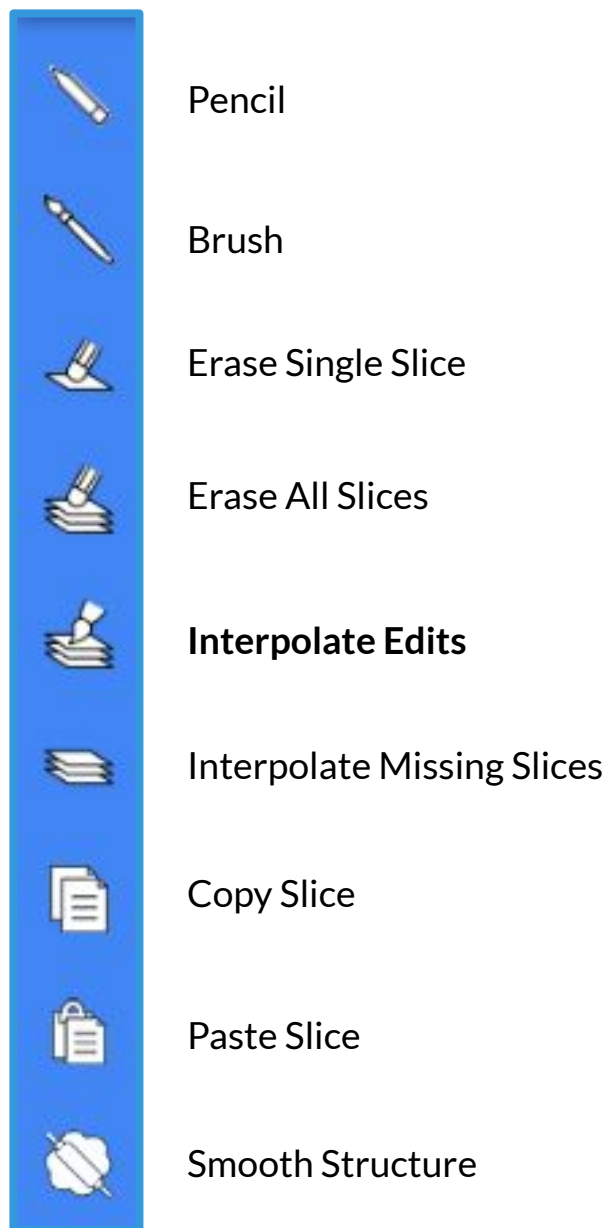Planning structure options include:
a. Margin: symmetrical, asymmetrical, inner, outer
b. Ring: outer, inner
c. Overlap
d. Combine
e. Crop: additional margin option

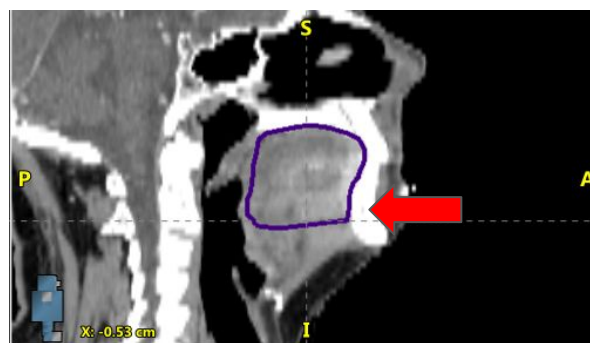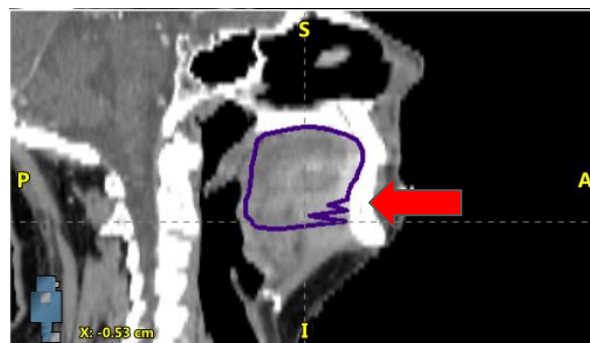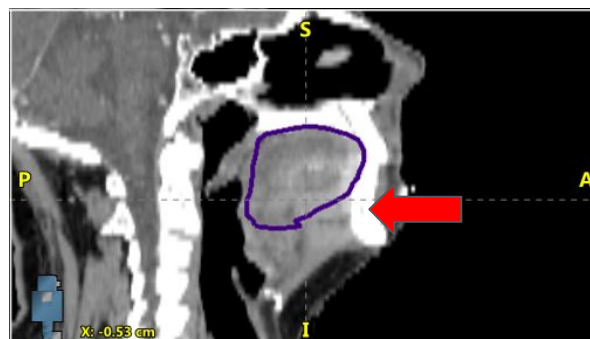Multiple operations can be used for a single structure.

17. Click the folder icon to add user-specific planning structures. User-specific planning structure templates can be created in the AutoContour Template Manager.

18. Editing Options in AutoContour:

Pencil

Brush

Erase Single Slice

Erase All Slices

Interpolate Edits

Interpolate Missing Slices

Copy Slice

Paste Slice

Smooth Structure
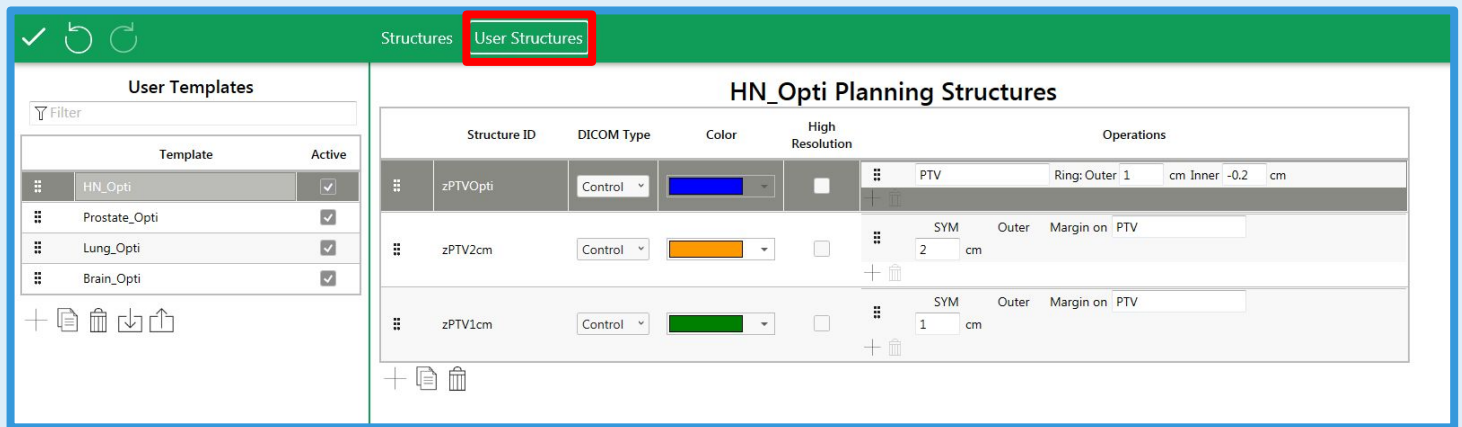
Example of **Interpolate Edits**:

19. Click on the **Save** icon to save work in AutoContour.

20. Click on the **Export** icon to send approved structures to Eclipse TPS or to generate a structure set dicom file.

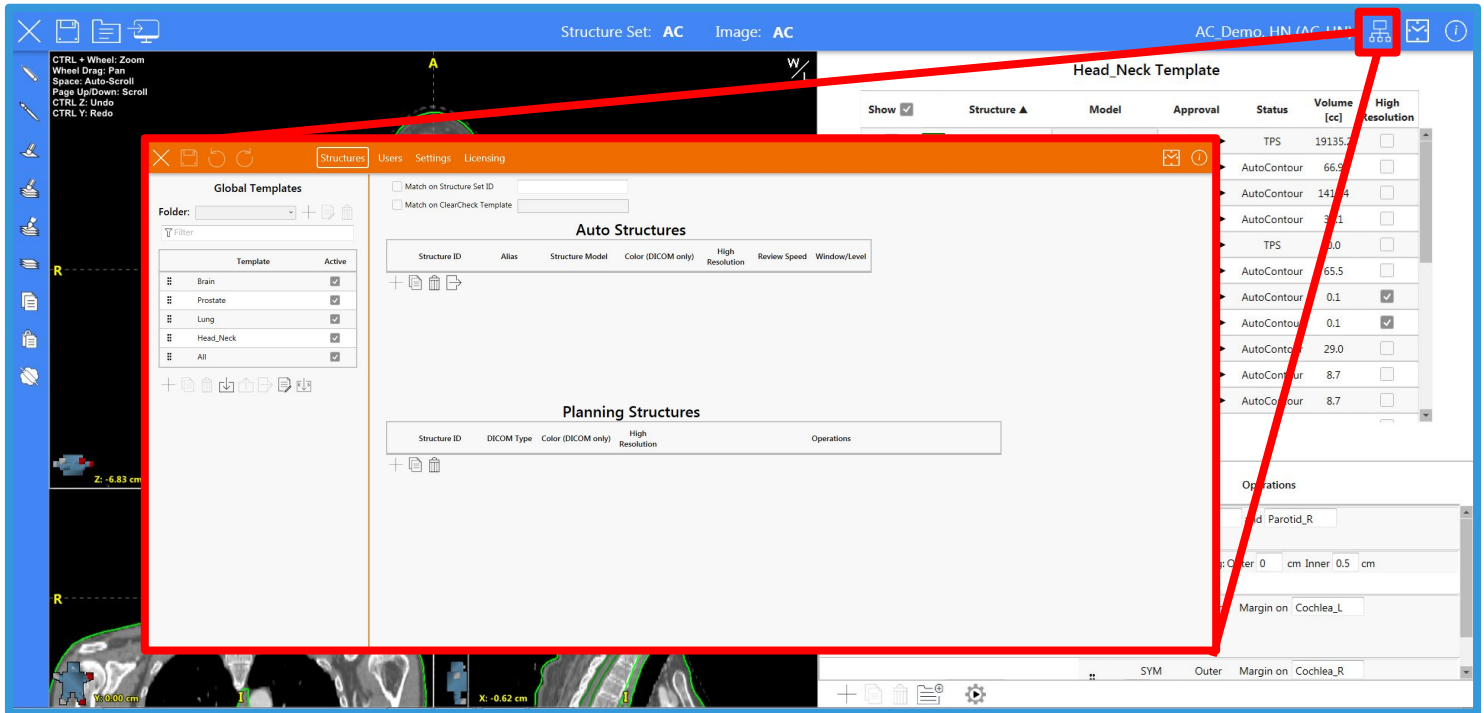21. Click on the **Template Manager** icon to return to the Template Manager

User Structures templates are created and edited in the Template Manager. These templates cannot be viewed by other Eclipse users. Importing/exporting templates offers the ability to share templates with other users.

22. Click on the **X** icon to close AutoContour without exporting structures.

AutoContour Administration:

a. To access the AutoContour Administration application:

    i. Launch the AutoContour Administration application if you have a shortcut on your desktop, or

    ii. Click on the "Network" icon in the upper right corner of the AutoContour application when running with a patient in Eclipse, or

    iii. From within the installation location of your AutoContour installation, proceed to the "AutoContourAdministration.exe" file and double-click to launch the application

    (*Note: This is typically installed on your Eclipse Image server in the Published Scripts folder. A quick way to access the PublishedScripts folder within Eclipse is to go to **Tools | Scripts | Open Directory**.*)

b. Once within Administration you can configure changes for the entire department.

For further assistance, please contact us at
support@radformation.com or call us at 1-844-723-3675 x2.