VMAT CSI junction contouring script (Eclipse)

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Purpose: To generate VMAT field junction contours to aid in patient alignment for patients undergoing VMAT CSI planned in the Eclipse environment.
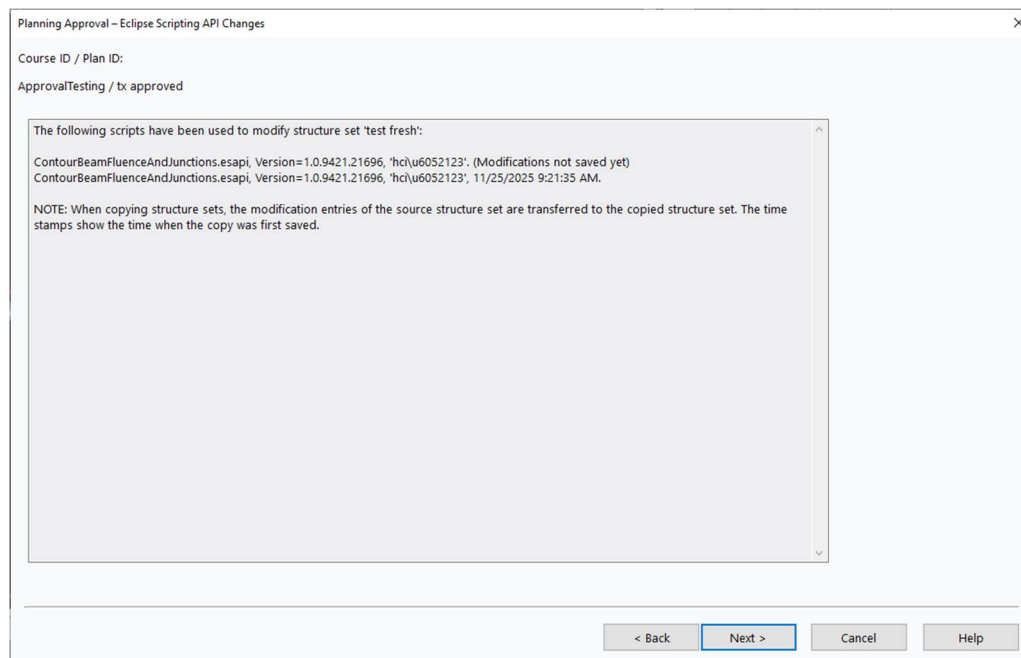
When to run the script: Run this script **prior** to plan approval (e.g., during the "Finalize & Planning Appr" task)

> **Planning approved plans:** Plans having a status of "Planning Approved" **do not** prohibit the running of the script and generation of junction contours (they will just be un-approved structures).

> **For treatment-approved plans:** For VMAT CSI, each isocenter is split into its own plan and each isocenter is "Treatment approved". Because these plans only have one isocenter, the **script cannot run on the individual Tx-approved plans**. You will have to re-run it on the multi-isocenter planning approved plan and re-generate the individual plans.
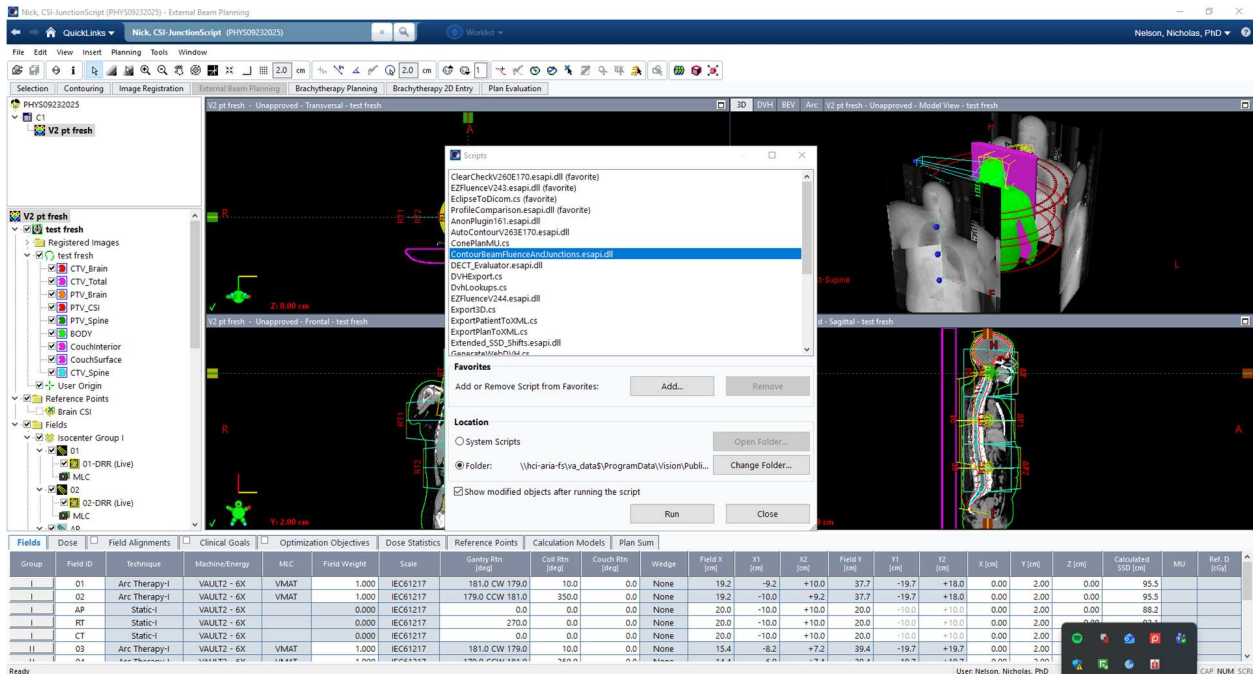
> **Warnings/Flags:**
>
> - Script **is not** compatible with **Halcyon/Vault3**
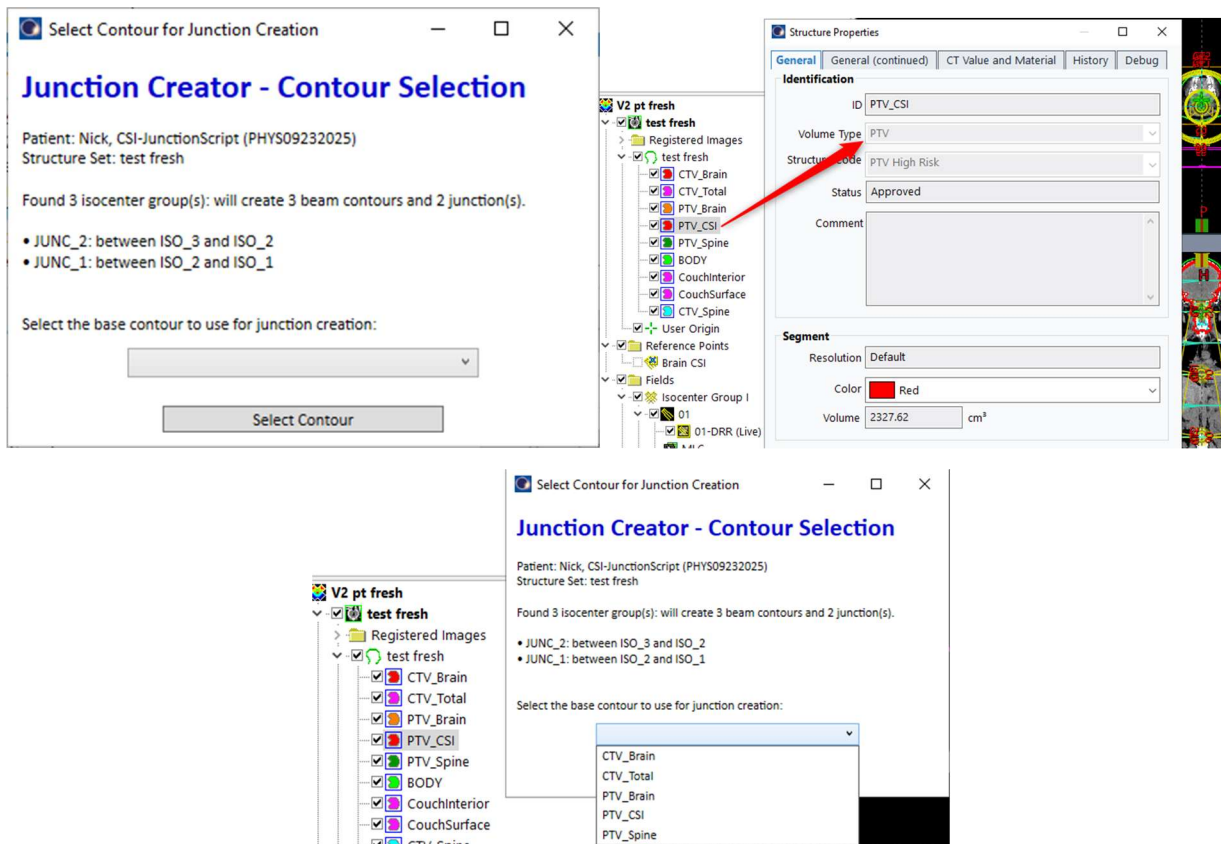> - When performing plan approval, you will get a warning saying the script modified your structure set.
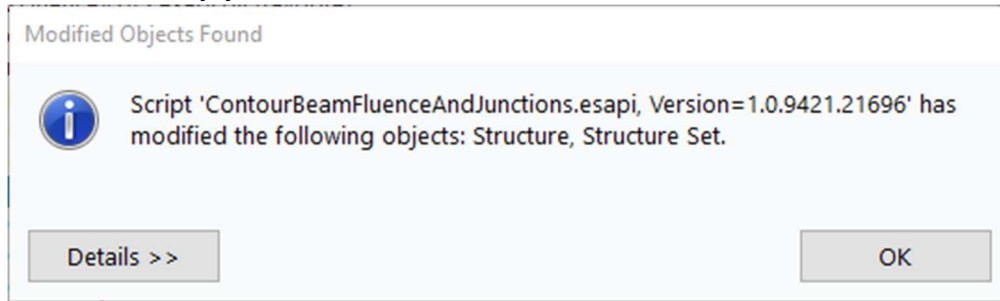

Script walk-through

1. Go to "Tools" and "Scripts…" and select "ContourBeamFluenceAndJunctions.esapi.dll" in the path \\hci-aria-fs\va_data$\ProgramData\Vision\PublishedScripts

2. The below window should pop up. Select the contour that you want to be used to derive the junction. Most often, this should be the planning volume. Options listed consist of those with Volume Types of "PTV", "CTV" or "GTV". So if you don't see your contour listed, please set the Volume Type in Structure Properties.

3. Select your contour and hit "Select contour" and wait about 30 seconds or so. If the script ran successfully, you'll see this notification.

4. Click "OK" and review your new SS. The structures should be there (JUNC_* and BEAM_ISO_*). See below for finalized SS view. Please do a quality check on contours.