

# Using AI Auto-Contours Effectively

"Contour CoPilot for OARs is really a game changer."

#### Brandon Mader

Chief Medical Physicist St. Charles Health System; Bend, Oregon Al auto-contouring should help you achieve significant timesavings and increased accuracy. In spite of recent advancements in Al technology, dosimetrists still need to make contour edits in certain cases. Efficient and accurate corrections will help ensure that overall timesavings is achieved in the auto-contouring process. Correcting these contours must be efficient and accurate to ensure overall timesavings is realized in the auto-contouring process.

Making contouring edits directly in Contour ProtégéAl®—the same system where the contours were generated—is less burdensome on your workflow, and your TPS. Contour edits can be made quickly and accurately using Contour CoPilot®, a tool unique to Contour ProtégéAl.

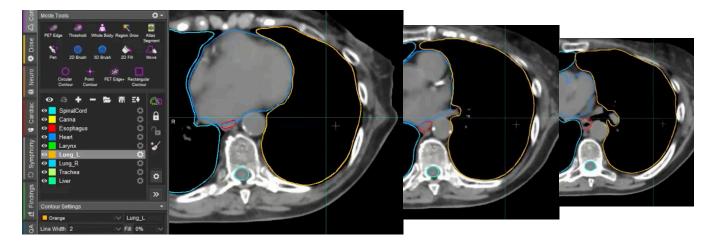
Below are **two cases** in which Contour CoPilot and a 2D tool easily corrected Al-created auto-contours.

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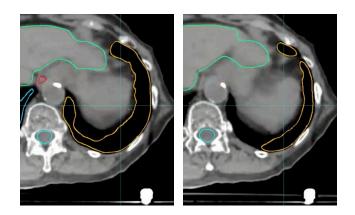


# Contour ProtégéAl

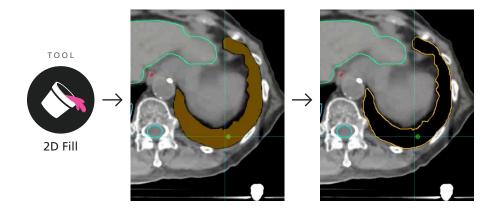
## A Lung Contour



Let's take a look at a left lung contour created by Contour Protégé. Overall, the contours look accurate and ready to use. As represented by the yellow contour in the image below, a few slices near the base of the structure do require adjustment.



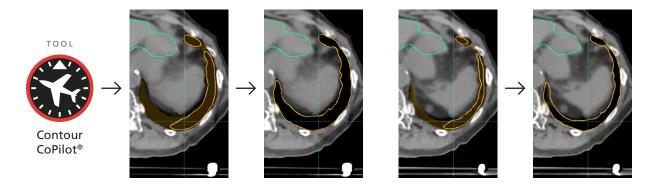
For lung cases with a steep drop-off in Hounsfield units, it is best to start with a well-executed contour. To achieve this, we should first delete the existing contour on this slice. Because we have a steep drop-off in Hounsfield units, the 2D Fill tool can quickly create a fairly accurate slice, requiring only slight adjustments using the 2D Brush.



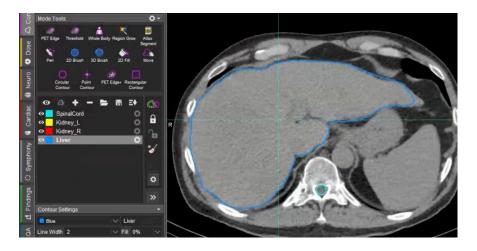
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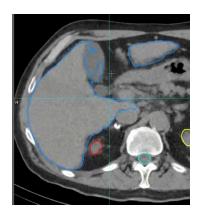
To make adjustments to subsequent contours from this slice, use the Contour CoPilot tool to deformably propagate the results from one slice to the next. Continue using the Contour CoPilot and 2D Brush to easily make any necessary edits to subsequent slices. The results are a quick and effective correction of this portion of the contour.



A Liver Contour



The second example is a liver contour created by Contour Protégé. As in the last example, the contour looks acceptable overall. However, there is a slice in which the contour leaks into another surrounding structure, as shown below.

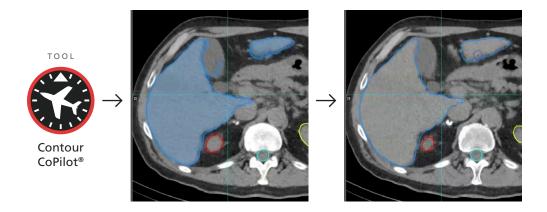


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To correct this, make a quick adjustment with the 2D Brush, activate the Contour CoPilot tool, then scroll and click to accept the deformed contour recommendation. There is also an option to click and hold to use the 2D Brush for minor edits to any subsequent contour slices.



### Conclusion

MIM®'s Contour CoPilot and 2D Brush tool are valuable for correcting minor edits to contours generated by Contour Protégé.

By combining the automation of Contour Protégé with the editing advantages of Contour CoPilot, clinicians can significantly reduce the time and effort required for accurate Aldriven contouring.

