

# Image Repair

The Image Repair module is a module that includes the ability to designate bad slices or subregions that can be ‘repaired’ by copying voxels from neighboring slices, interpolating across neighboring slices, copying from a related volume, or removed from the volume. Subregion repair includes the ability to blend voxels at the edge of the region.

1. Load the **VH\_Abdomen.avw** data set from the **\$(\BIR\images\TutorialData** directory.
2. Open the **Image Repair** module (**Process > Image Repair**).
3. In the Image Repair module (figure 1), use the Displayed Slice slider bar to locate the first corrupt slice. Note that the first corrupt slice is slice 276.
4. In the **Bad Slice(s)** portion of the window, set slice **276** as the first bad slice.
5. Now, use the Displayed Slice slider bar to locate the last corrupt slice. Note: the last corrupt slice is slice 279.
6. In the Bad Slice(s) portion of the window, set slice 279 as the last bad slice.
7. Select **Interpolate Between the First Good Slices** for the correction method.
8. Click **Repair Slice(s)**. A dialog box will be returned, click **Change a Copy of the Loaded Volume**. The fix will now be applied to a copy of the data set; the fixed data set will be saved to the Analyze workspace as ‘VH\_Abdomen0’.
9. Close the Image Repair module before proceeding to the next task.

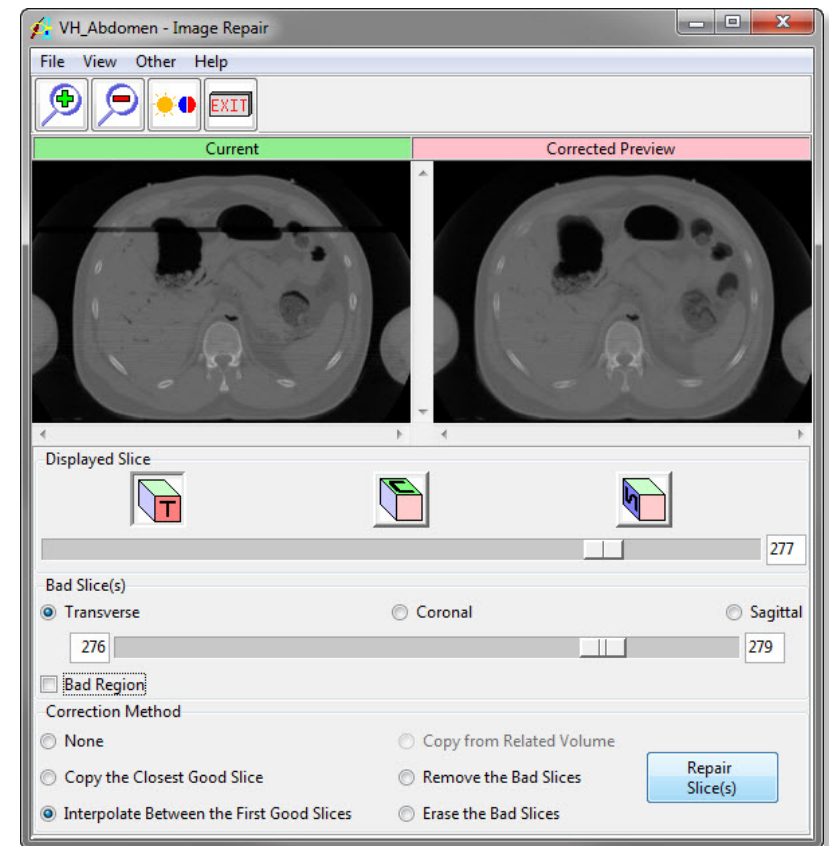


Figure 1

# Image Repair: *Repair a Bad Region*

Exercise 26.1

The 'Bad Region' option provides the user the ability to define only a selected region to be repaired. To demonstrate this option we will use the VH\_Abdomen data set and repair only the corrupt regions.

1. Select the **VH\_Abdomen** data set in the Analyze workspace and open the **Image Repair** module (**Process > Image Repair**).
2. As in the main exercise, set slice **276** as the first bad slice and slice **279** as the last bad slice.
3. Select the **Bad Region** option, the region boundaries and region sliders will appear.
4. Adjust the region sliders until just the corrupt area is defined (figure 1).
5. Try adjusting the **Blend Border** and **Correction Method**. Review the different results.
6. Click **Repair Slice(s)**. Slices 276 through 279 will be corrected according to the region and correction method. A dialog box will be returned, click **Change a Copy of the Loaded Volume**.
7. Close the Image Repair module before proceeding to the next exercise.

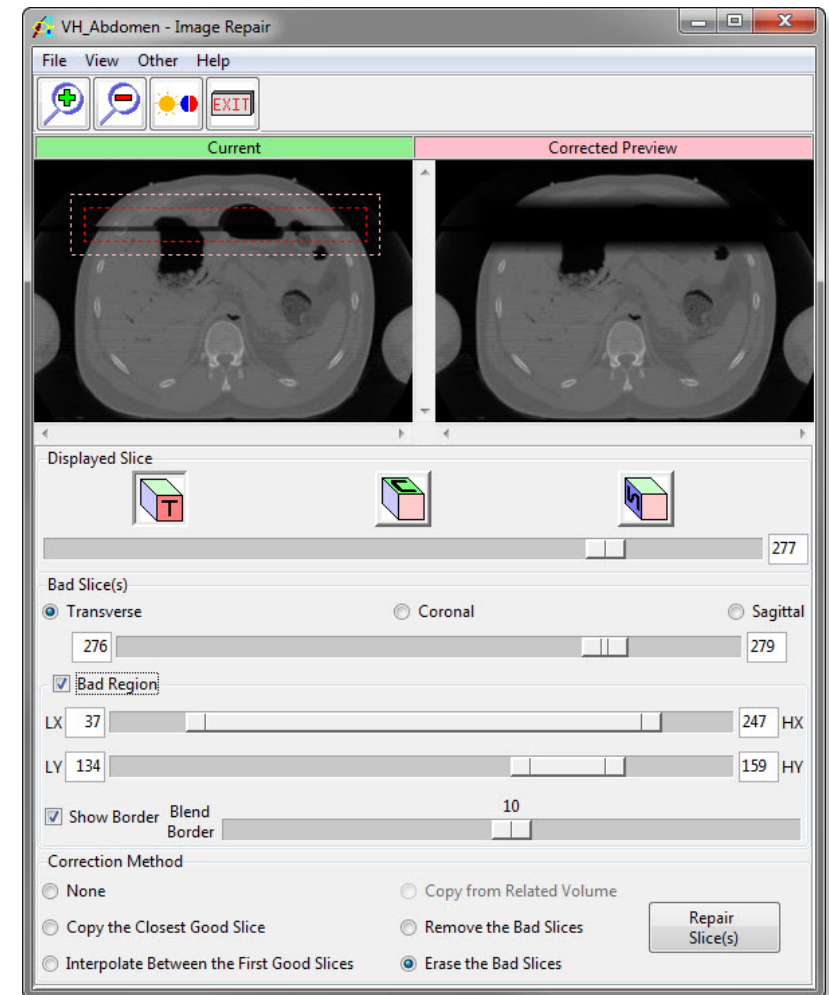


Figure 1