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.
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.
Image Repair: Repair a Bad Region

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.