



Figure: We illustrate using our techniques to image the ROI over the thoracic spine, showing A) a representative axial slice of the CT scan using 17 mGy, B) the same slice using 1.7 mGy, C) a magnified view of the original CT scan using 17 mGy, D) a magnified view of the original CT scan using 1.7 mGy, E) the complete reconstruction using FCT1, F) the complete reconstruction using FCT2, G) a magnified view of the ROI using FCT1, and H) a magnified view of the ROI using FCT2, I) the difference image between the original high-dose and FCT reconstructions of the ROI, and J) a reconstruction of an ROI using only local data, for comparison purposes. Notice that C and H are essentially identical in the interior. A-H have the same window and level applied to all images. Image I has a level of 0 HU and window of  $\pm 5$  HU.