FIGURE LEGENDS

Figure 1: The APG phantom used for MTF evaluation. The enlarged area shows an 'MTF plate'.(8)

Figure 2: Signal-to-Noise Ratios for all steps imaged at 70kV. Readout artefacts can cause outliers as seen at step 1 (MUSICATM)

Figure 3: Average Contrast-to-Noise Ratios calculated from steps 1 to 4 of the step wedge at all energies.

Figure 4: Graph showing contrast with decreasing object size for the different algorithms. The background image is for illustrative purposes only and shows the superposition of the test image on the plotted graph. The image was obtained from scanning the contrast-detail phantom and processed with MUSICATM

Figure 5: Modulation Transfer Functions in both x- and y-directions as calculated on the same MTF plate for all three algorithms. The post-processed images have higher MTF values over all useful frequencies

Figure 6: Image of artefact encountered due to post-processing. The software's response when encountering a sharp continuous edge throughout the image length can be seen in the area between two wedges, which is treated as background without any useful information, and thus blanked out.

Figure 7: The result of edge enhancement during software processing. The image on the left shows over enhancement when encountering a sharp edge; the right-hand image illustrates smoothing of the uniform central area to reduce noise. The artefact is over enhanced here by window adjustment to clearly illustrate this effect.