

Supplementary Materials:

Effect of varying CT acquisition and reconstruction parameters on semi-automated clot volume quantification

Figures 1-6: Figure 1 uses box plots to illustrate the effect of energy and pitch on quantification of clot volume by showing the difference between the segmented volume and the mean measured [gold standard] volume (y axis) as it relates to energy and pitch for each of the 10 different clots (x axis). Similarly, Figures 2 through 6 illustrate the effect of energy/slice thickness (Figure 2); slice thickness/pitch (Figure 3); energy/ADMIRE (Figure 4); pitch/ADMIRE (Figure 5); and slice thickness/ADMIRE (Figure 6) respectively when comparing to the difference between the segmented volume and the mean measured gold standard volume.

Figure 7-12: Figure 7 uses box plots to illustrate the effect of energy and pitch on quantification of clot volume by showing the difference between the segmented volume and the mean of the measured volumes (y axis) as it relates to energy and pitch for each of the 10 different clots (x axis). Similarly, Figures 8 through 12 illustrate the effect of energy/slice thickness (Figure 8); slice thickness/pitch (Figure 9); energy/ADMIRE (Figure 10); pitch/ADMIRE (Figure 11); and slice thickness/ADMIRE (Figure 12) respectively using mean measured volume data.

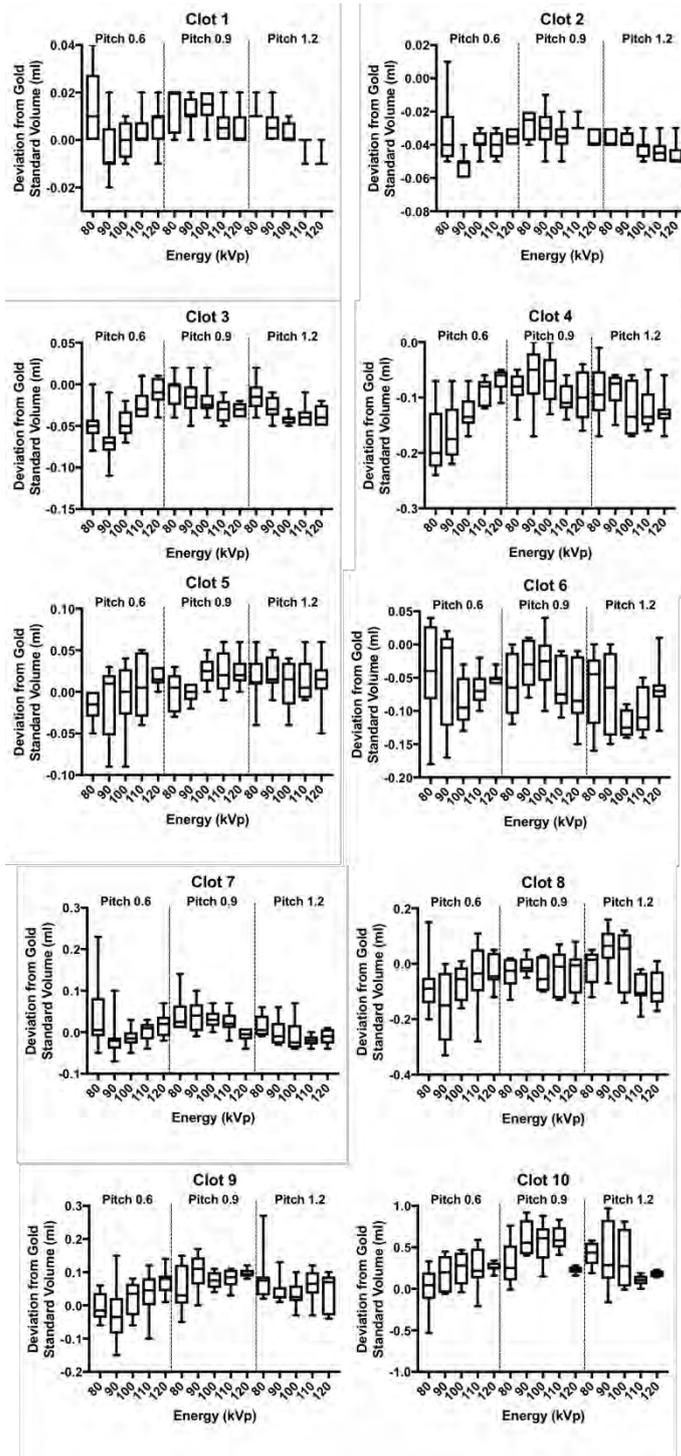


Figure 1: Box plots showing the difference from the mean measured [gold standard] volume for energy and pitch for each of the 10 different clots that were measured.

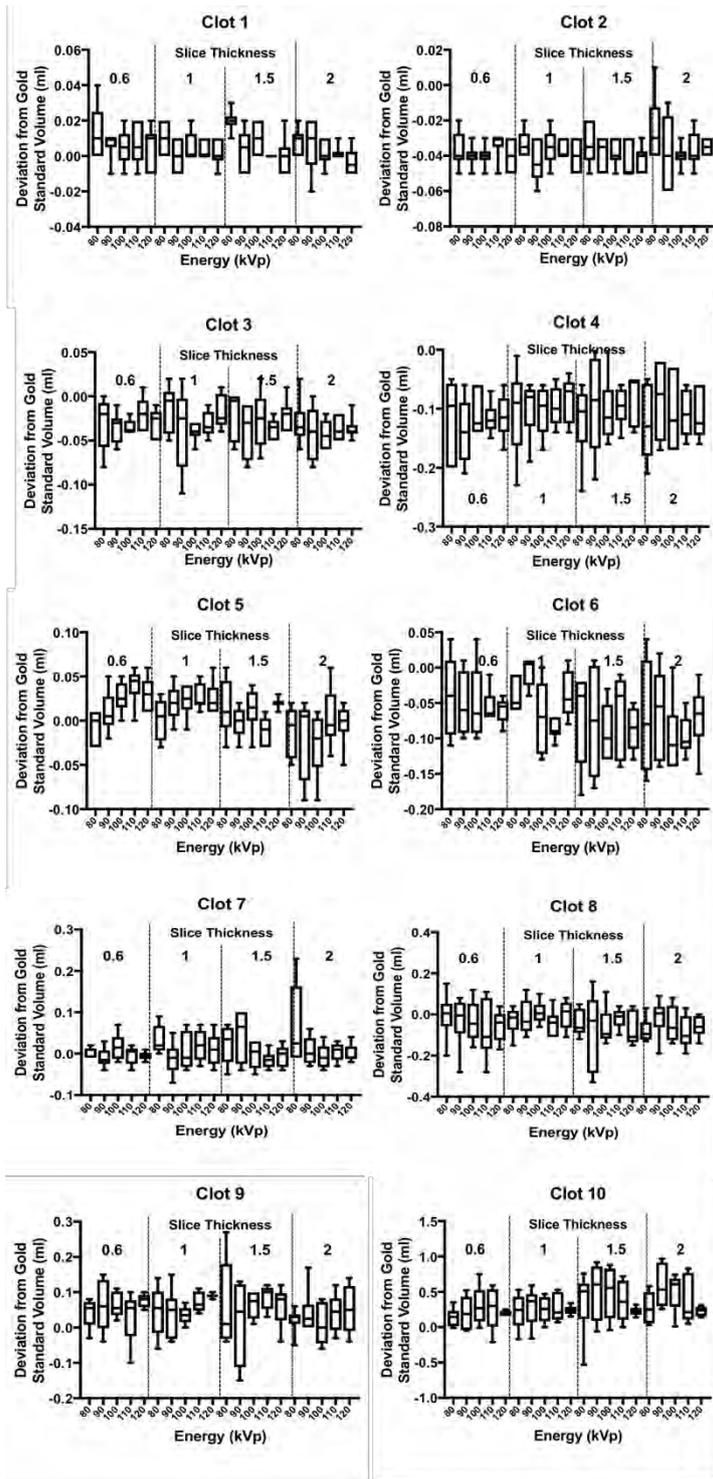


Figure 2: Box plots showing the difference from the mean measured [gold standard] volume for energy and slice thickness for each of the 10 different clots that were measured.

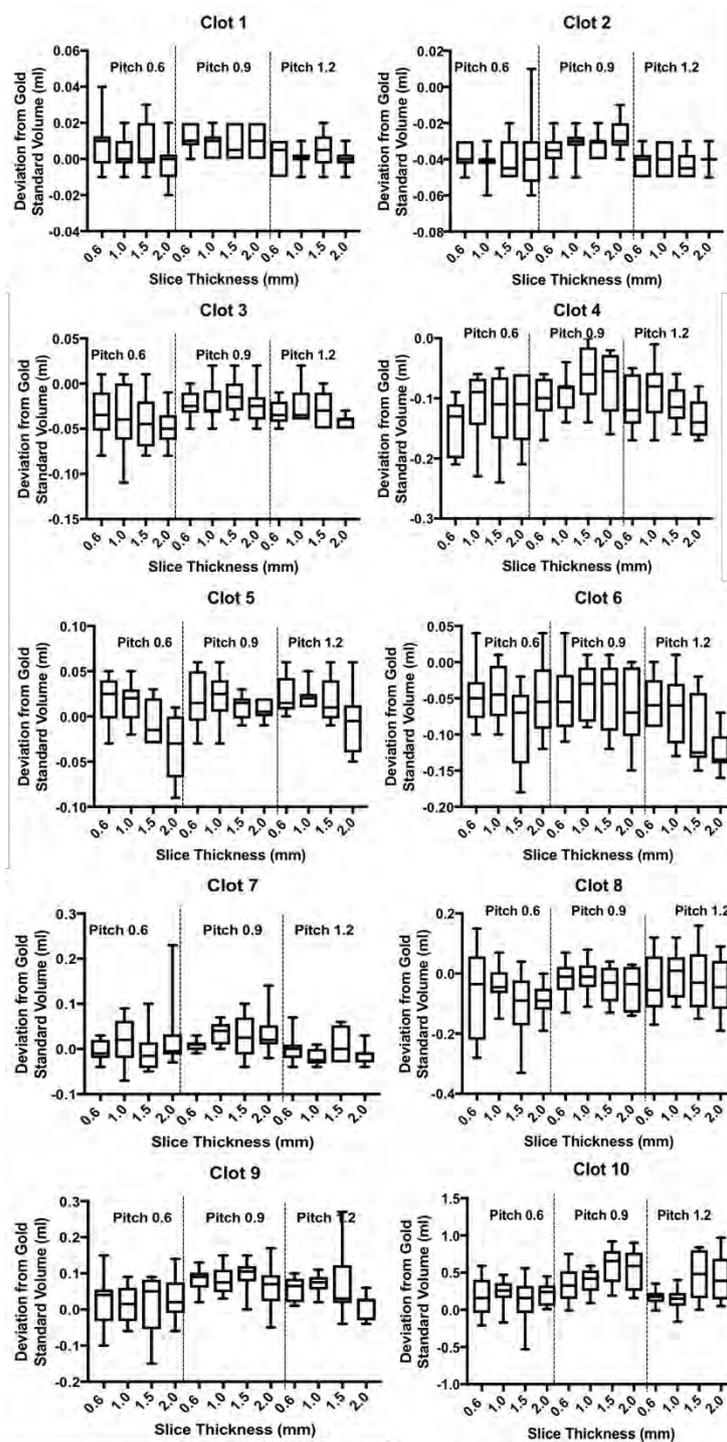


Figure 3: Box plots showing the difference from the mean measured [gold standard] volume for slice thickness and pitch for each of the 10 different clots that were measured.

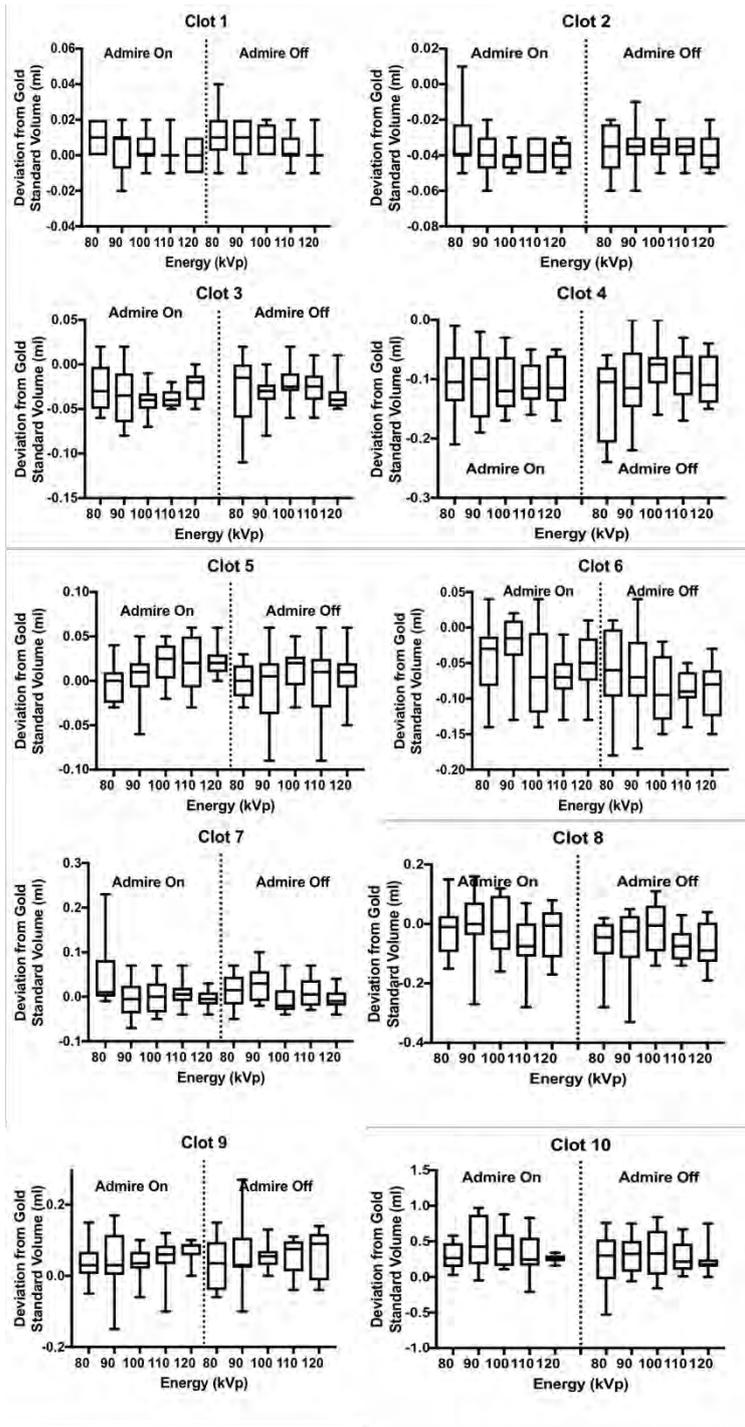


Figure 4: Box plots showing the difference from the mean measured [gold standard] volume for energy and ADMIRE for each of the 10 different clots that were measured.

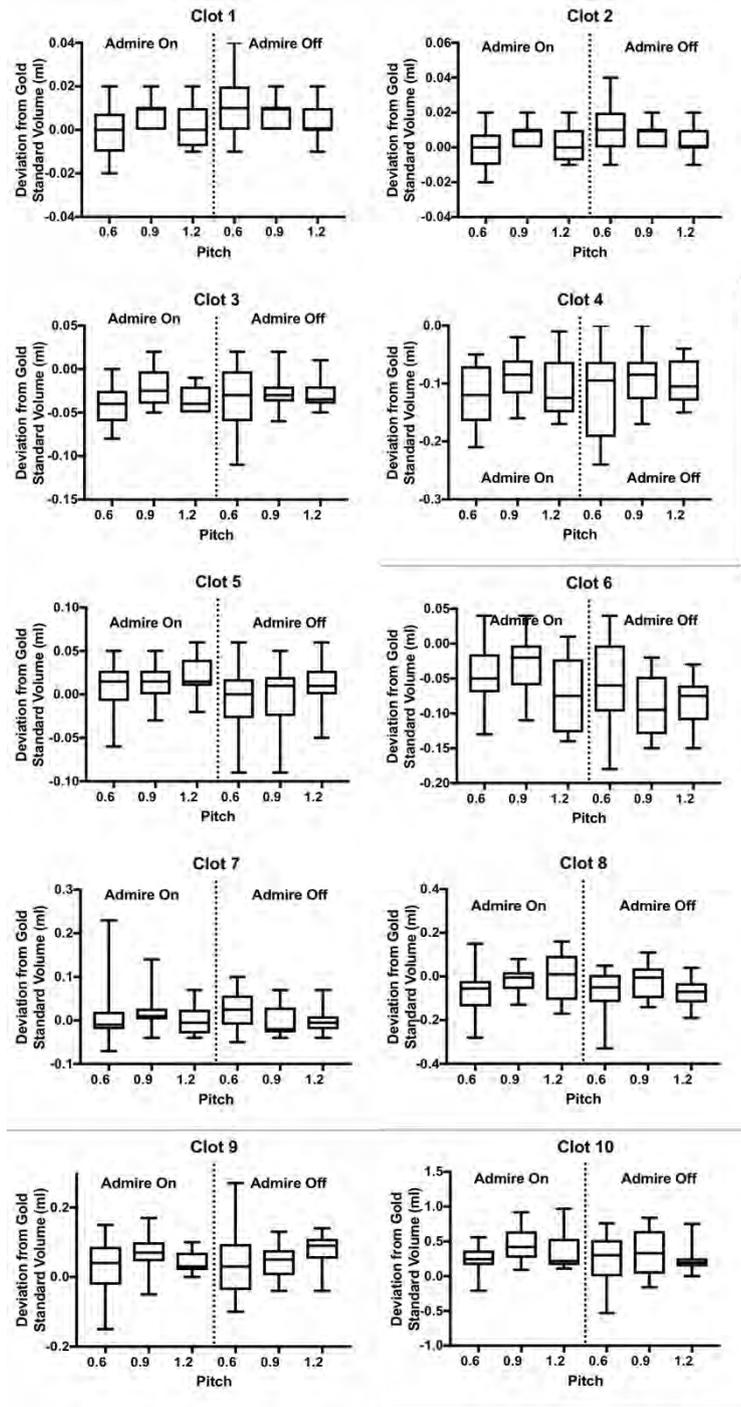


Figure 5: Box plots showing the difference from the mean measured [gold standard] volume for pitch and ADMIRE for each of the 10 different clots that were measured.

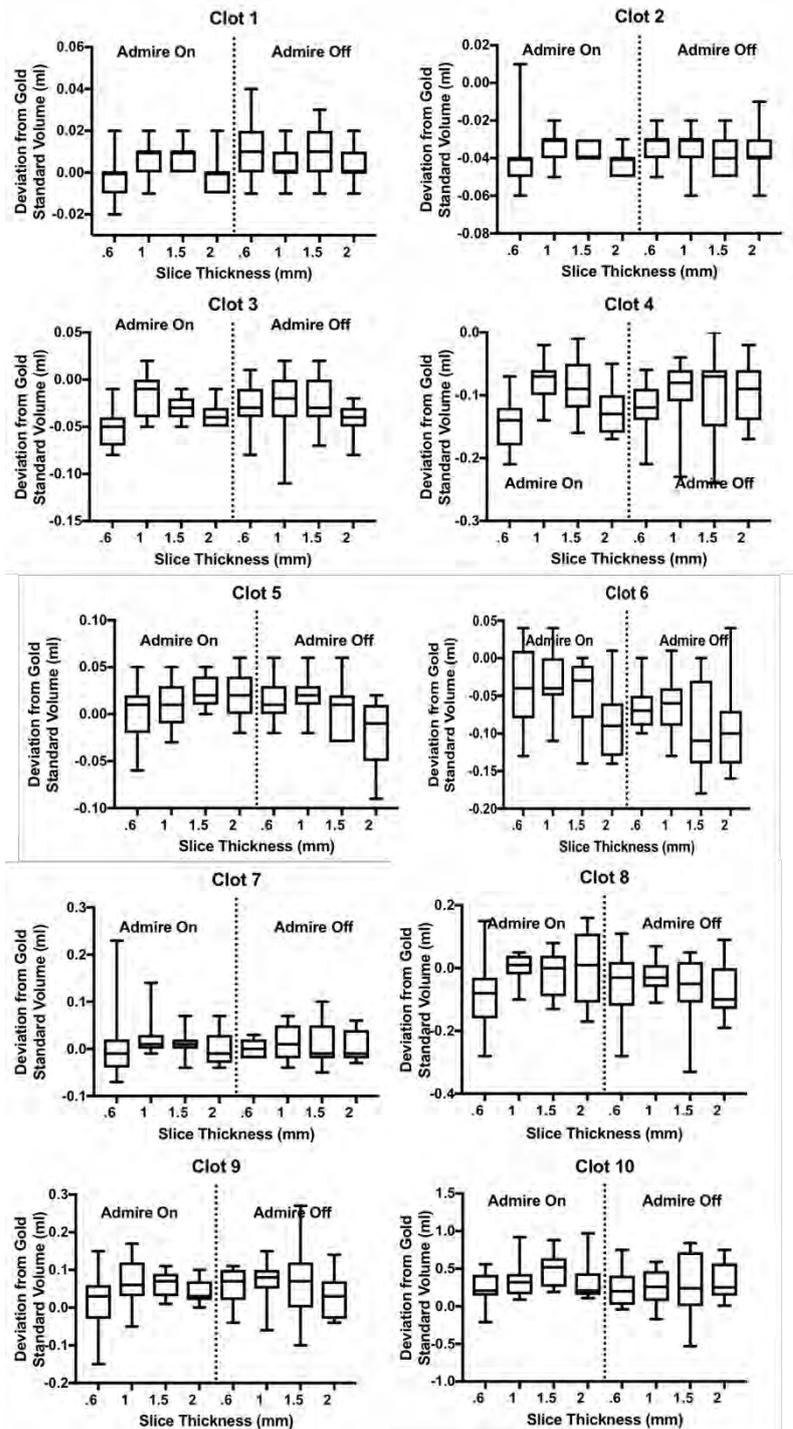


Figure 6: Box plots showing the difference from the mean measured [gold standard] volume for slice thickness and ADMIRE for each of the 10 different clots that were measured.

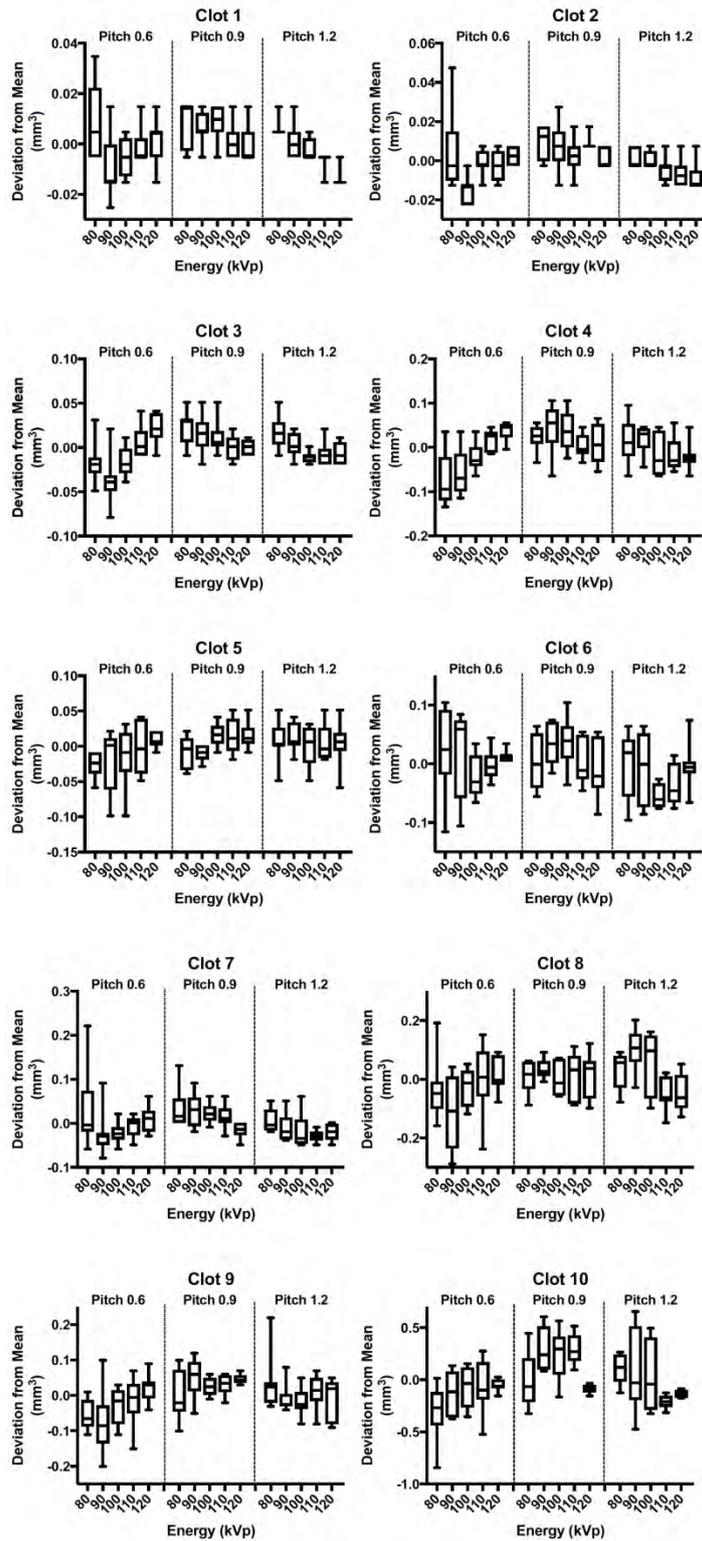


Figure 7: Box plots showing the difference from the mean measured volume for data for energy and pitch for each of the 10 different clots that were measured.

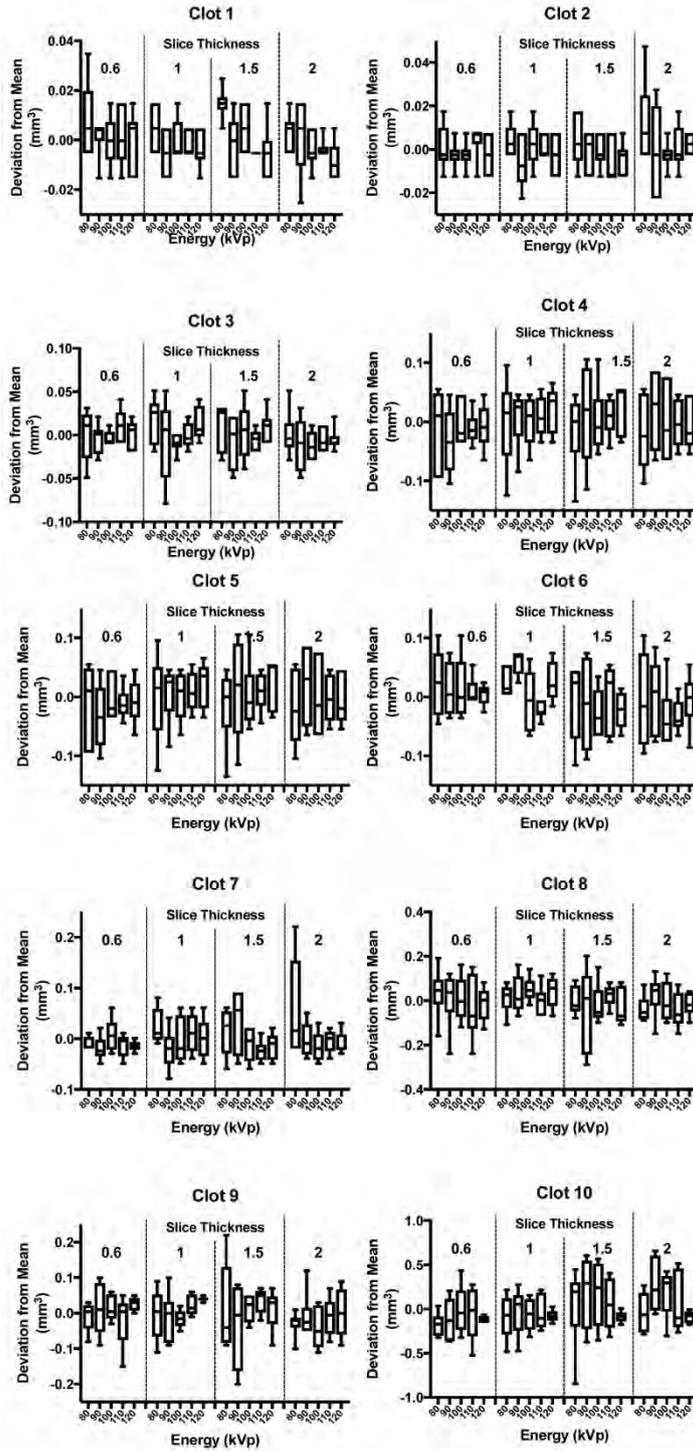


Figure 8: Box plots showing the difference from the mean measured volume for data for energy and slice thickness for each of the 10 different clots that were measured.

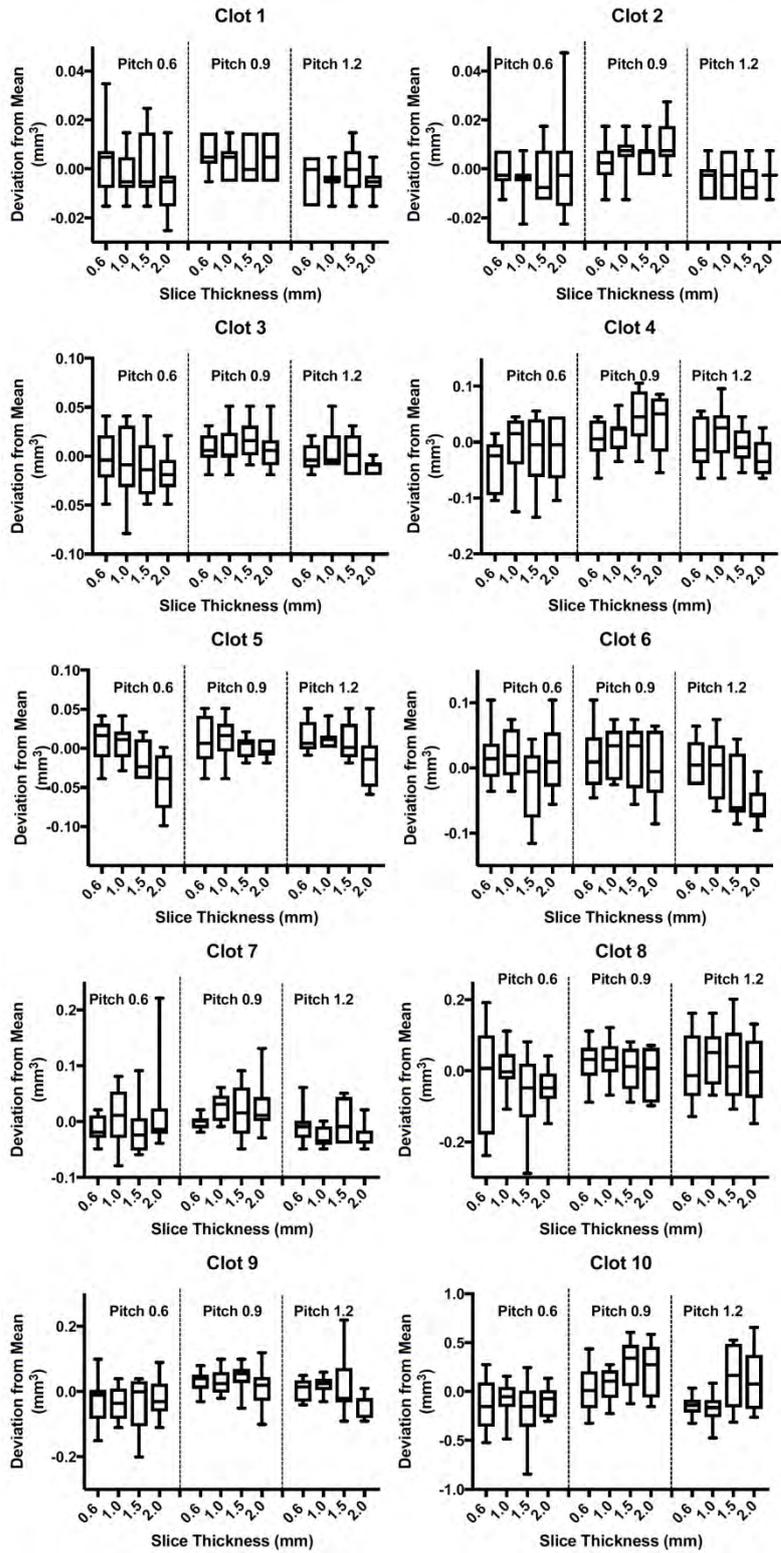


Figure 9: Box plots showing the difference from the mean measured volume for data for slice thickness and pitch for each of the 10 different clots that were measured.

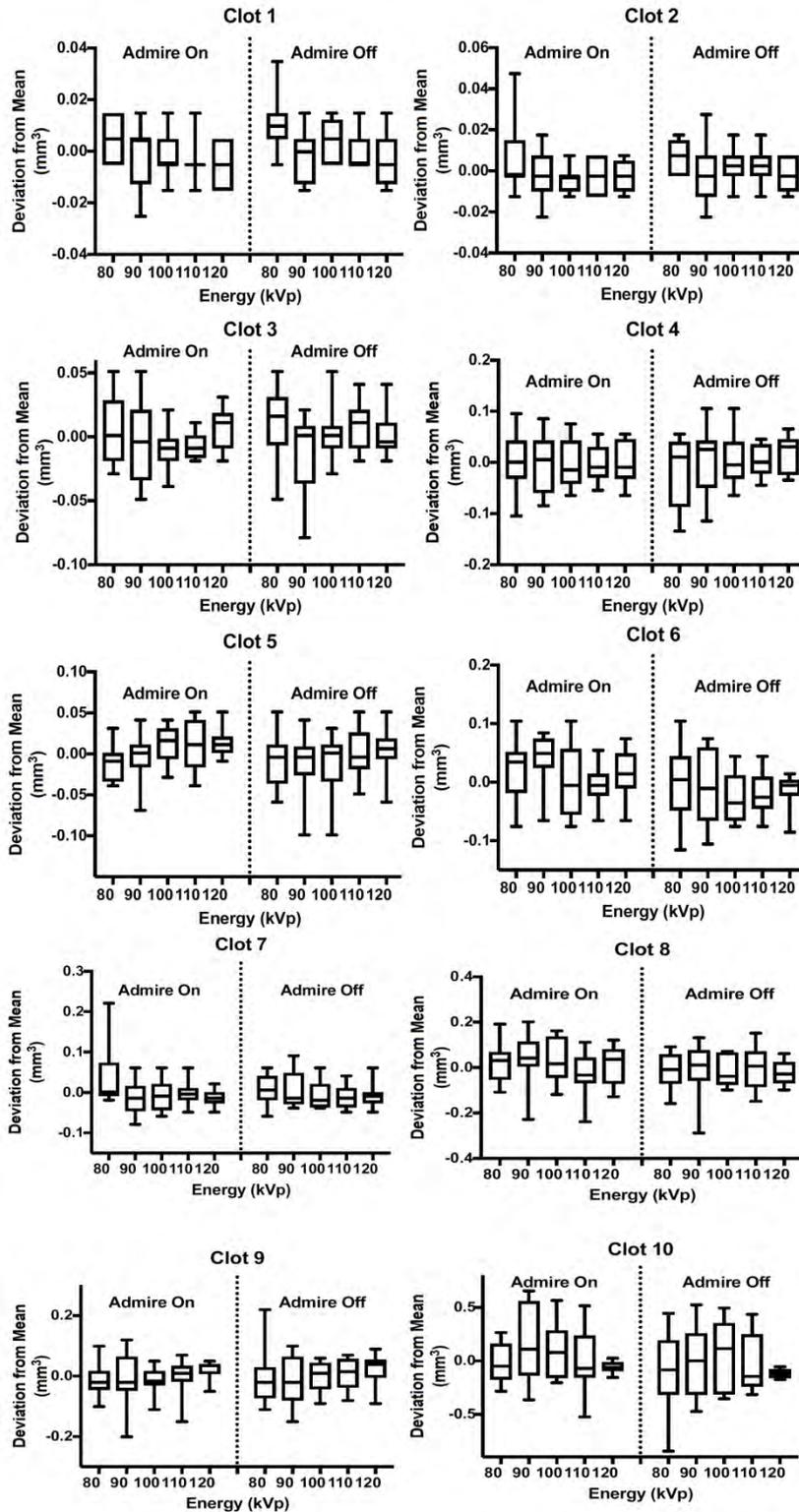


Figure 10: Box plots showing the difference from the mean measured volume for data for energy and ADMIRE for each of the 10 different clots that were measured.

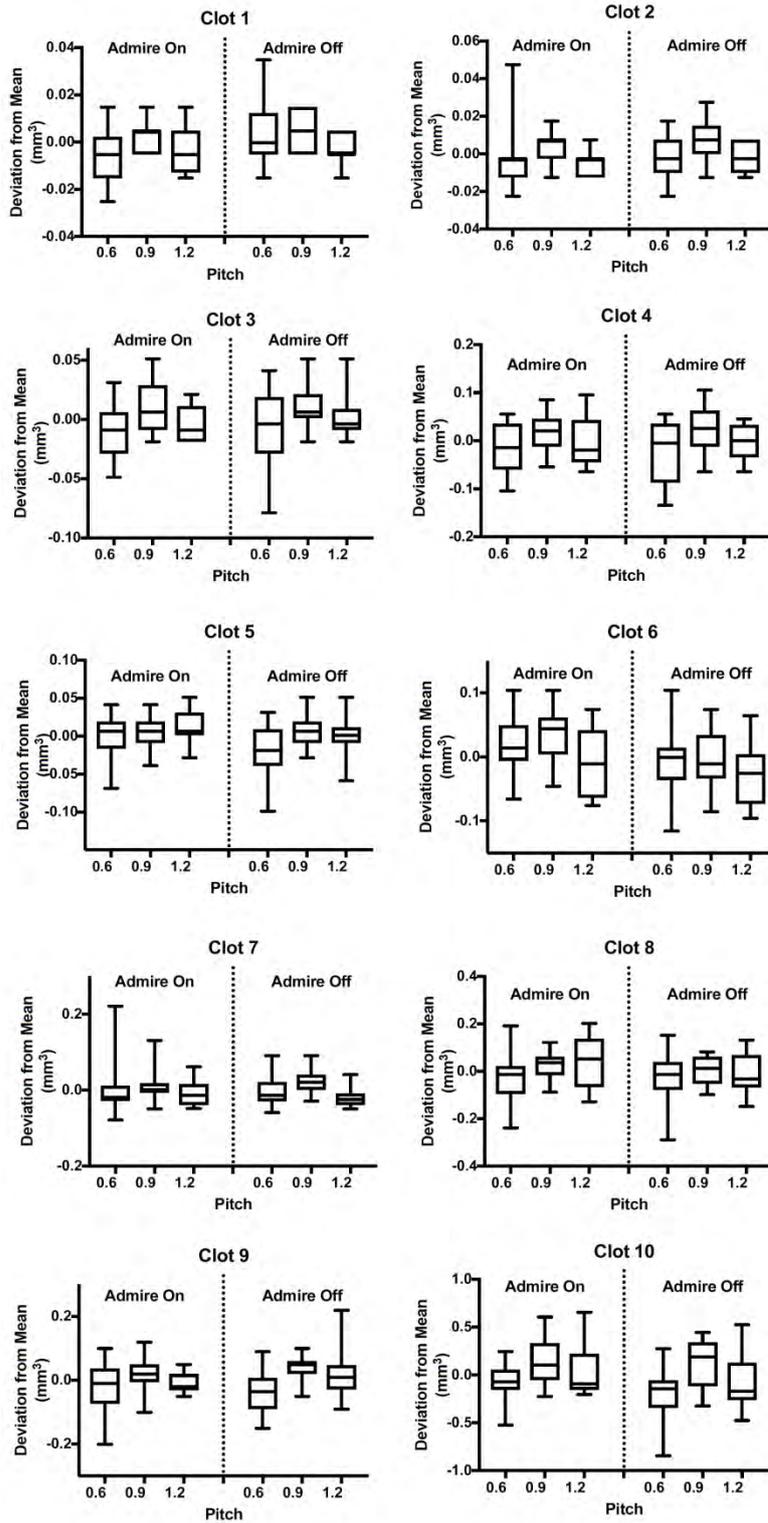


Figure 11: Box plots showing the difference from the mean measured volume for data for pitch and ADMIRE for each of the 10 different clots that were measured.

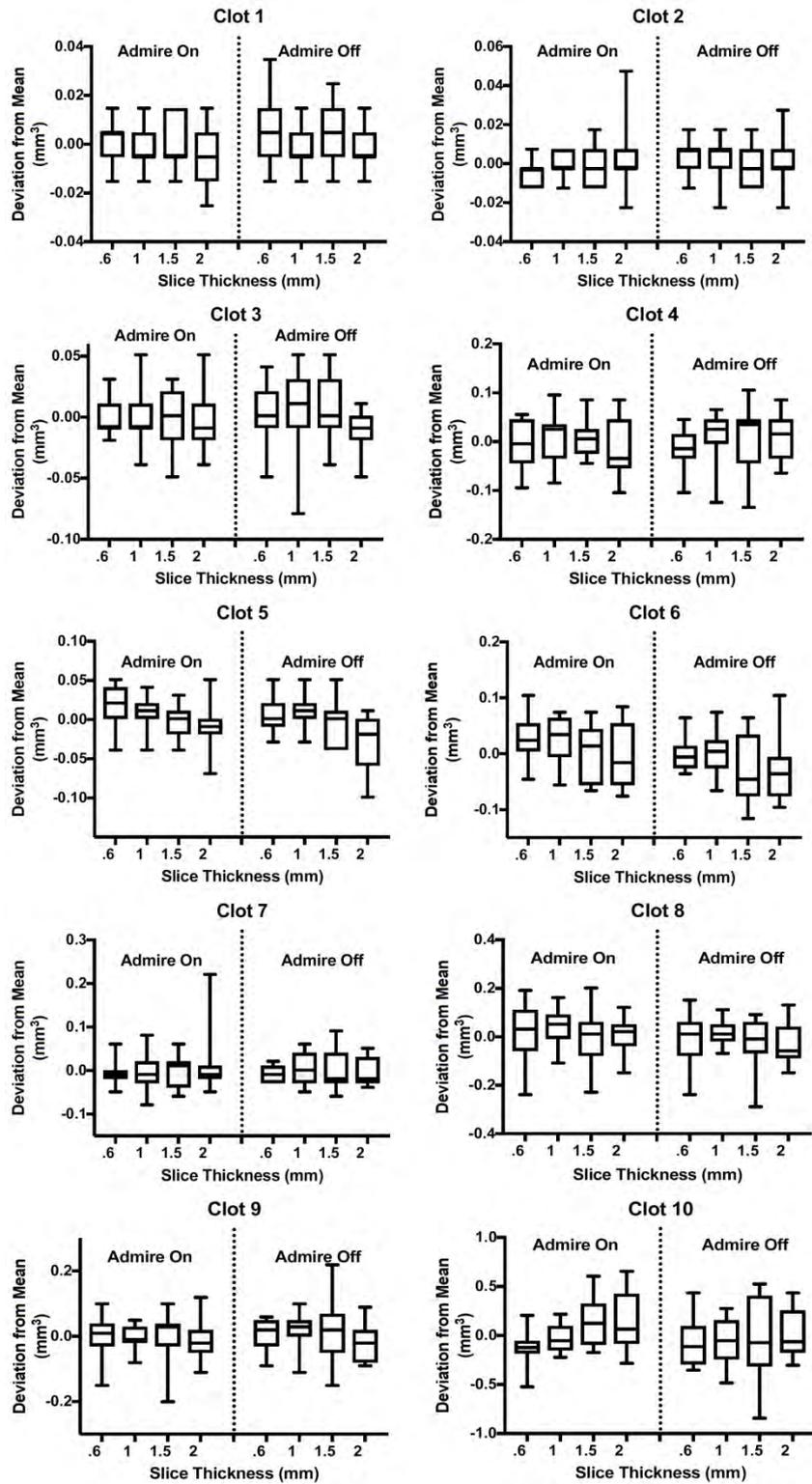


Figure 12: Box plots showing the difference from the mean measured volume for data for slice thickness and ADMIRE for each of the 10 different clots that were measured.