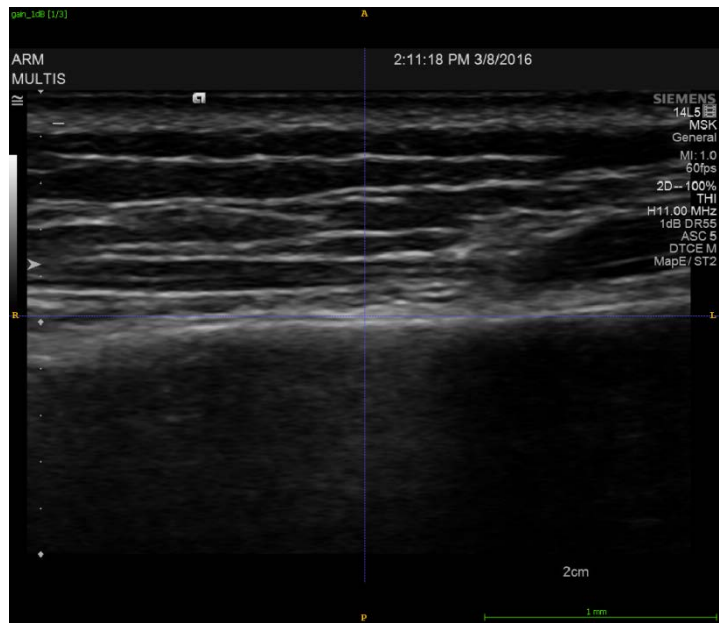**Gain:** The overall brightness of the image can be adjusted. This can also be adjusted during post-processing. There is no change in resolution. We plan to use the TEQ button to optimize the gain.
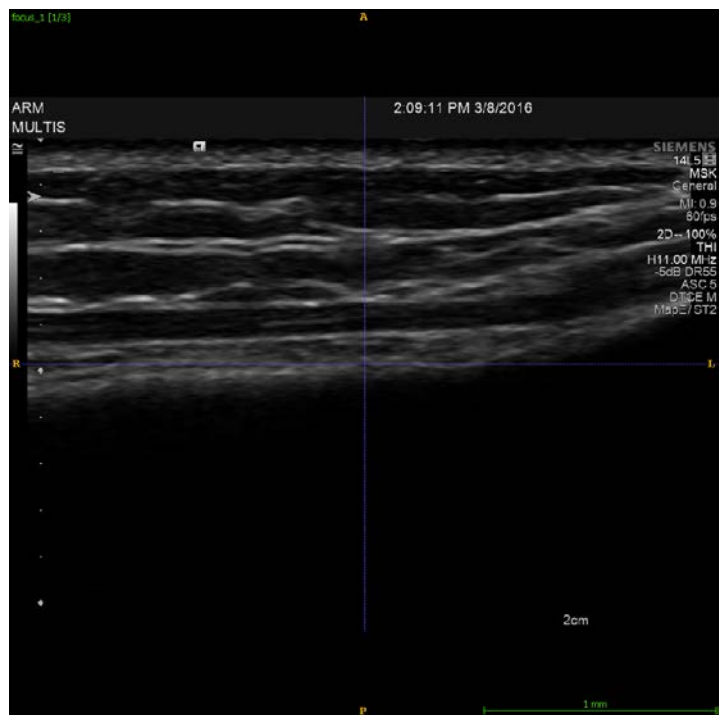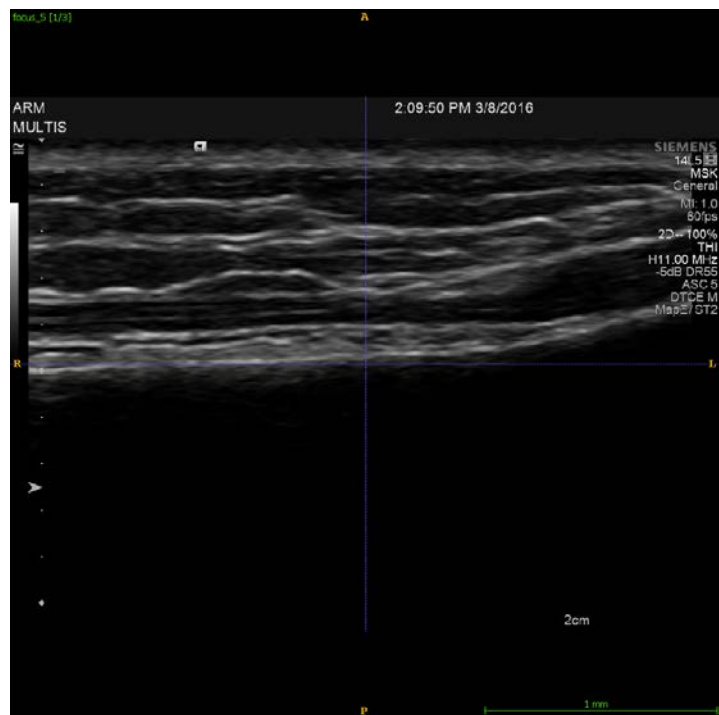

Gain = 1 dB

Gain = 9 dB

Focus: The pulse of the ultrasound can be manipulated to be at its narrowest at a particular depth so the region can be examined in more detail. There is no change in resolution. We plan to adjust the focus so that it is in the middle of the region of interest (skin to bone).
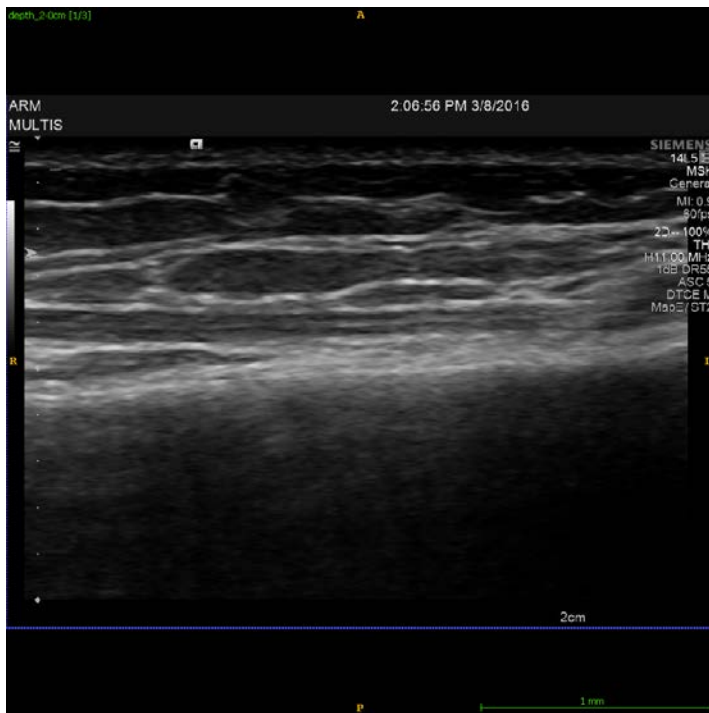

Focus = top of image

Focus = bottom of image

Depth: Increasing the depth allows deeper structures to be viewed, but reduces the scale. Increasing the resolution along the depth will decrease the field of view along the width. We have chosen to fill the screen with the entire image.

Depth = 2.0cm
(0.00299401 cm/pixel)

Depth = 8.0cm
(0.011976 cm/pixel)