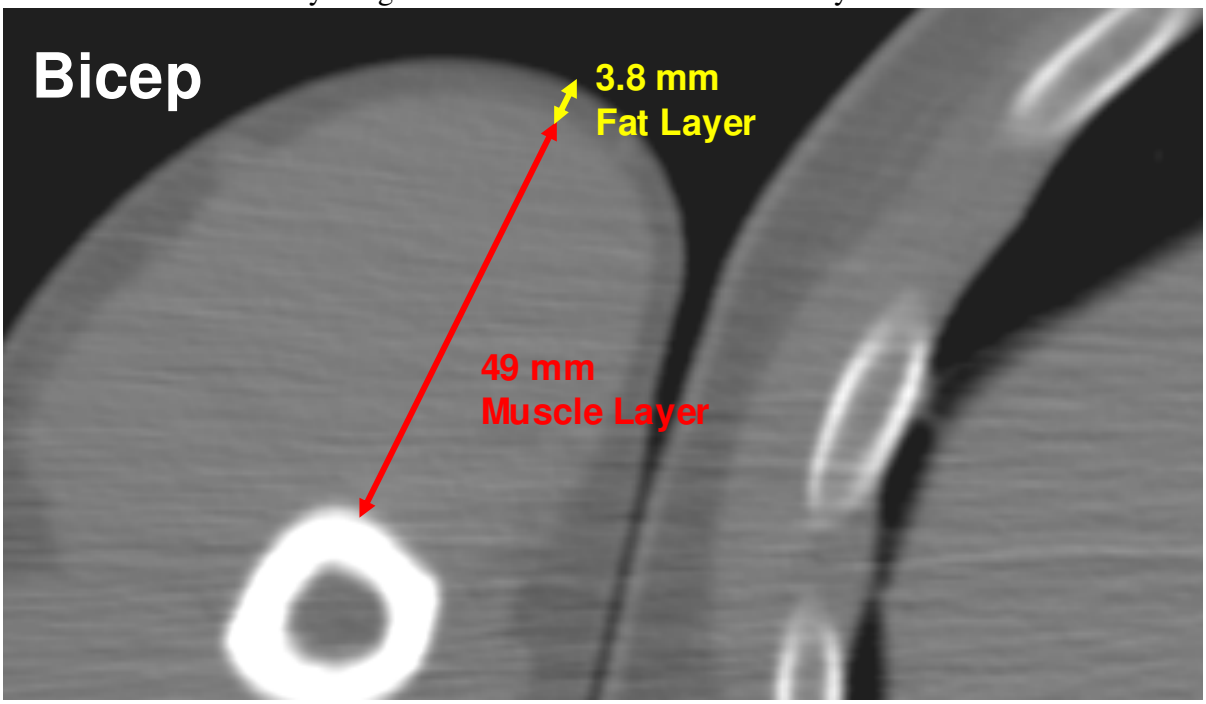
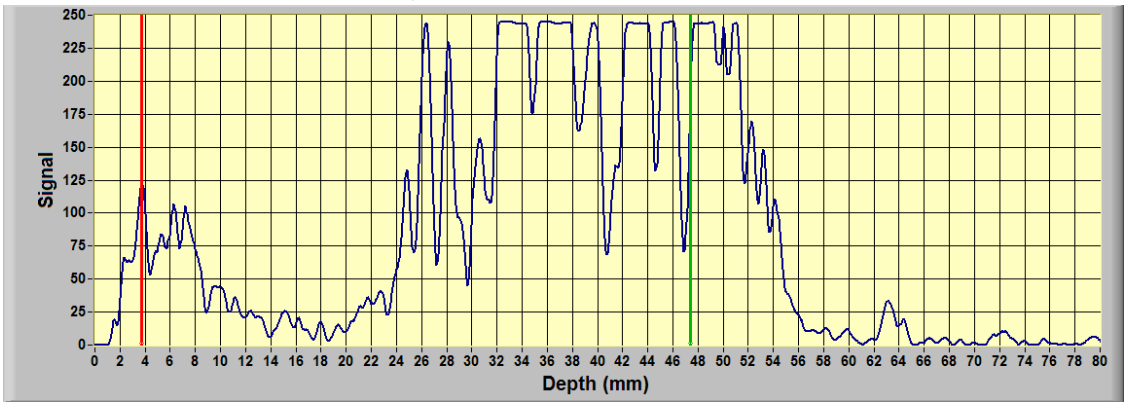
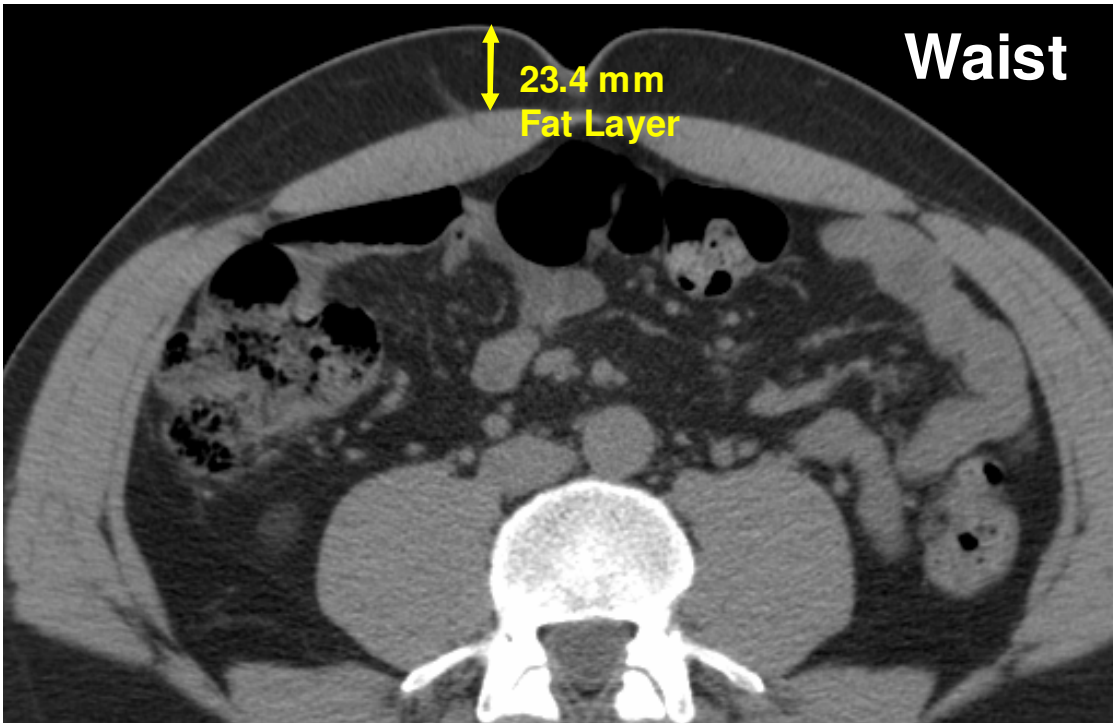
Comparison of X-ray CT to BX-2000

To validate the accuracy of the BX-2000 we performed high resolution X-ray CT imaging and compared the measurements. X-ray computed tomography (CT) can be used to obtain detailed cross-sectional images of the human body with resolutions of approximately 0.5 mm. The cross sectional images can be used to accurately calculate fat thickness and body composition. Unfortunately, CT imaging is expensive and the high radiation dose limits its use for regular body composition measurements. By contrast the BX-2000 ultrasound technology offers the potential for high resolution with no radiation risk. As you can see in the following CT images and graphs from the BX 2000 measurements, the correlation and precision of the BX 2000 to CT imaging is scientifically validated and accurate. Thickness is only different by a tenth of a millimeter—scientifically insignificant in the determination of body fat thickness

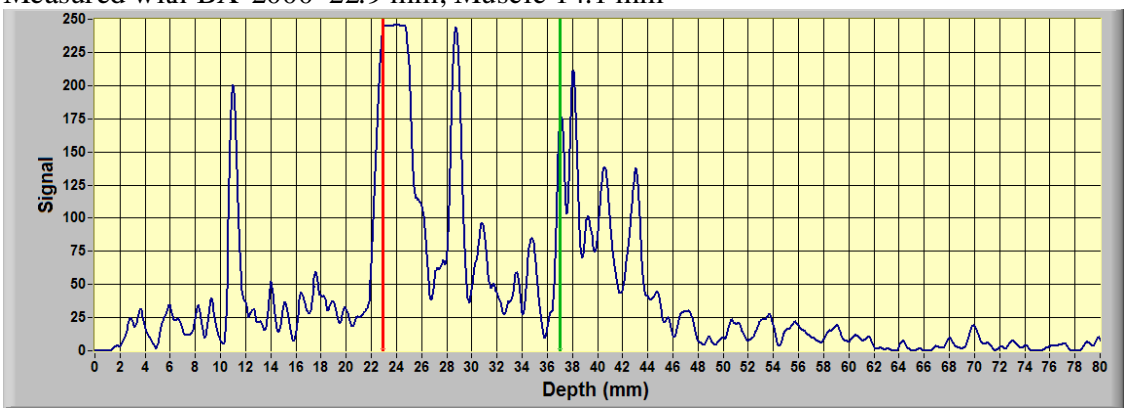


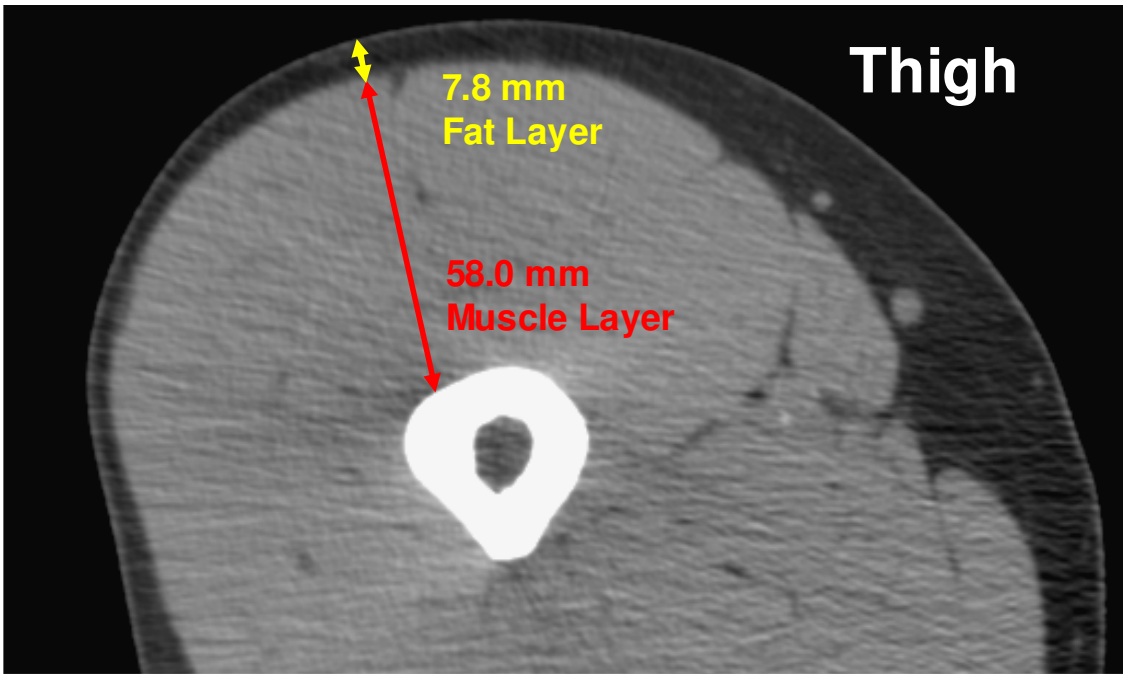
BX-2000 Fat Thickness 3.7 mm, Muscle 44.0 mm



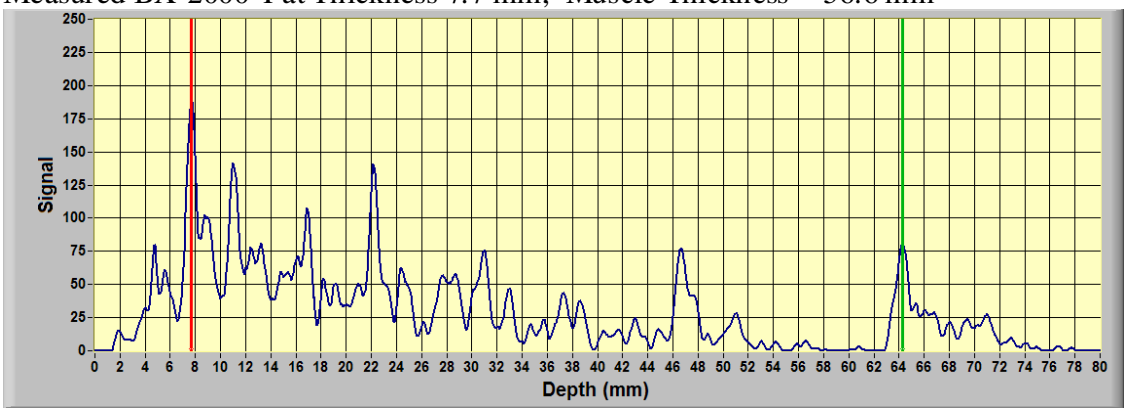


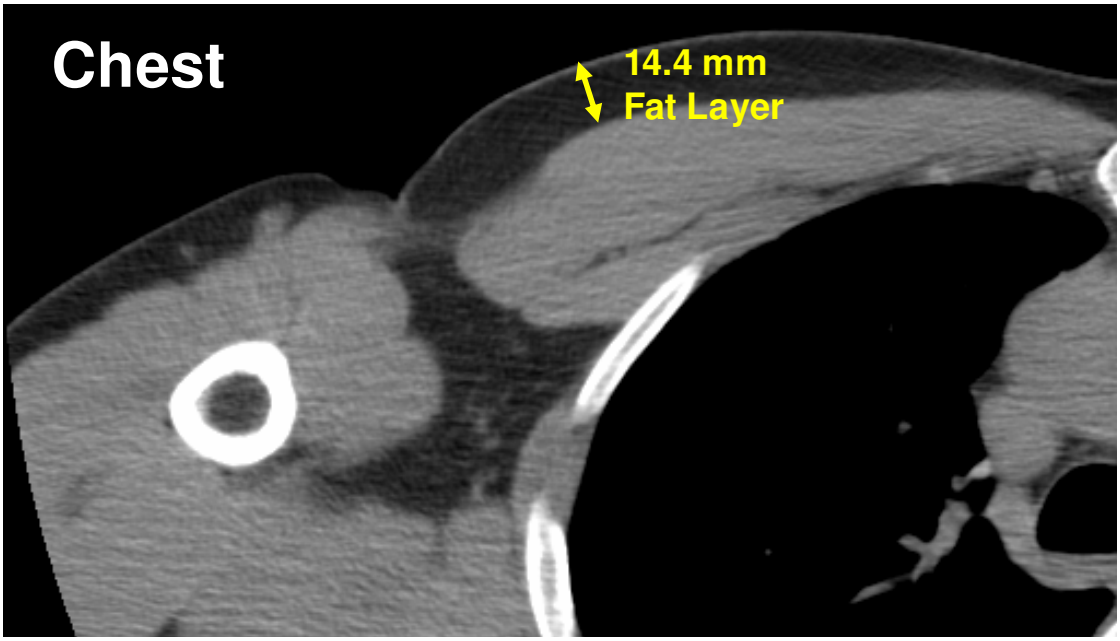
Measured with BX-2000 22.9 mm, Muscle 14.1 mm





Measured BX-2000 Fat Thickness 7.7 mm, Muscle Thickness = 56.6 mm





Measured BX-2000 Fat Thickness 14.5 mm, Muscle Thickness = 44.5 mm