

CT Comparison to Ultrasound

CMULTIS002-2

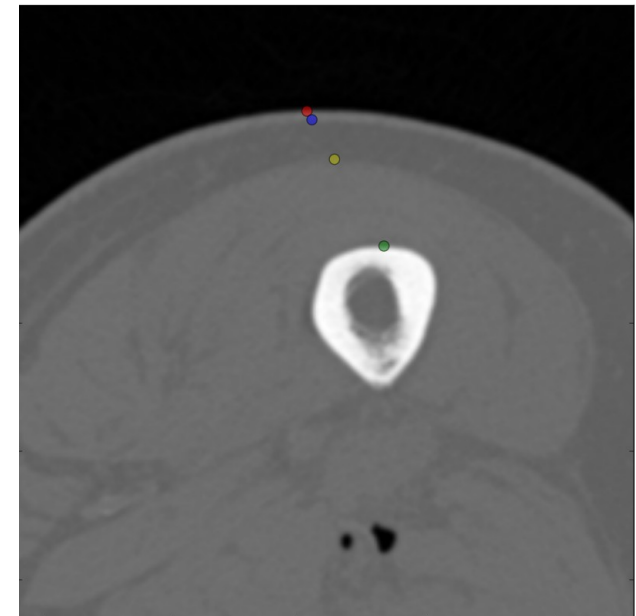
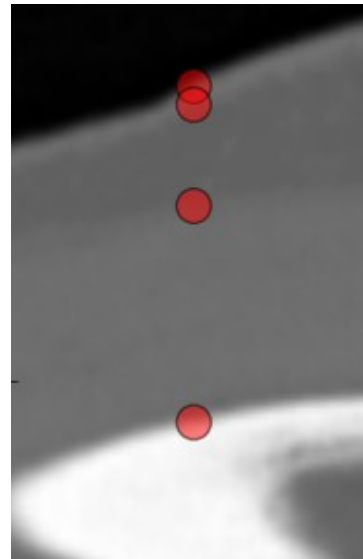
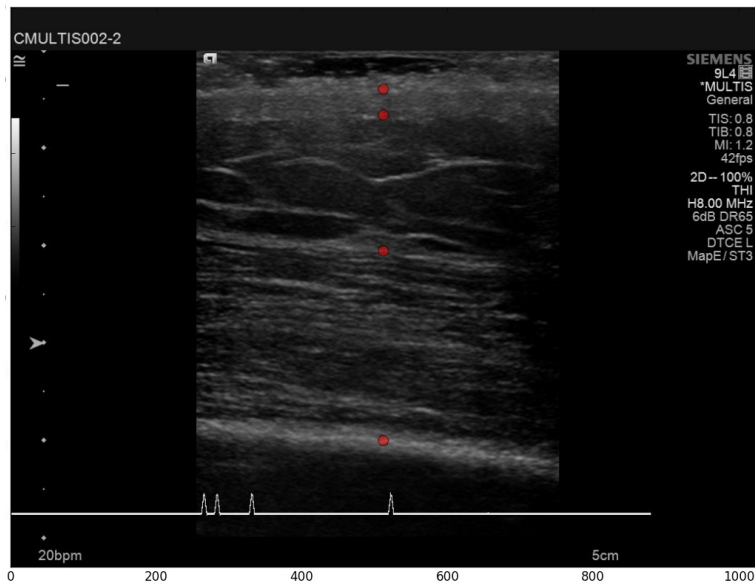
Cadaver Leg

04/04/2017

002_CMULTIS002-2_UL_AP_A-2

002_CMULTIS002-2_UL_AP_A-2 : Frame = 228

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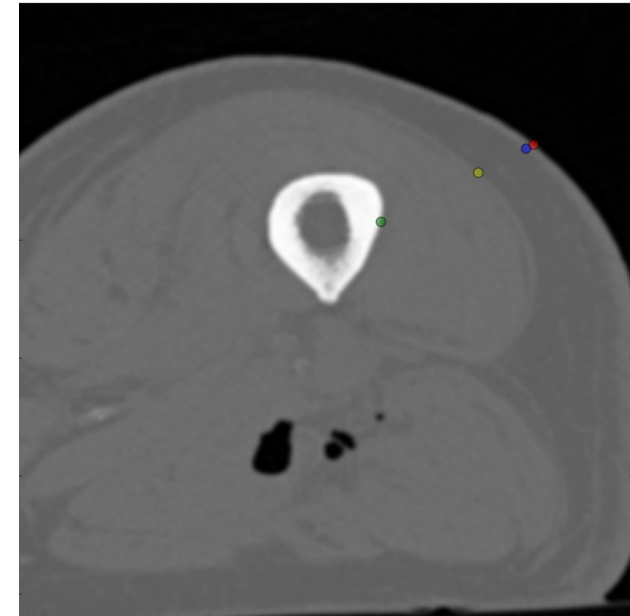
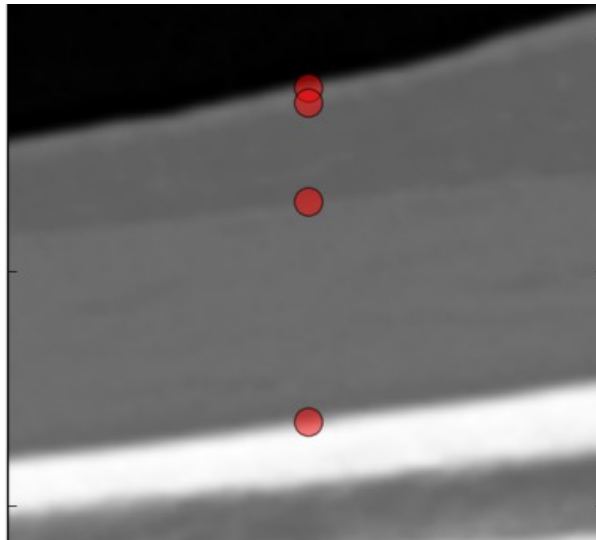
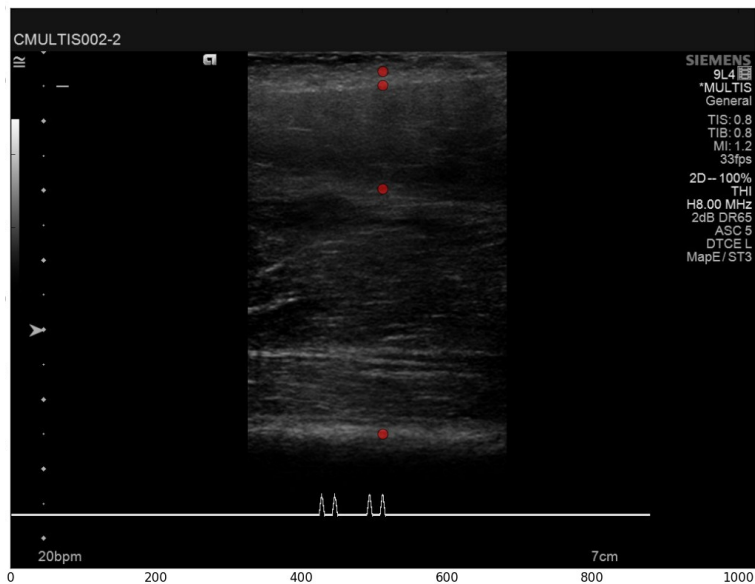


	US	CT_zProbe	CT_zSlice
Skin	2.66	1.88	2.19
Fat	13.98	10.31	10.00
Muscle	19.49	22.03	21.94

006_CMULTIS002-2_UL_LP_A-1

006_CMULTIS002-2_UL_LP_A-1 : Frame = 77

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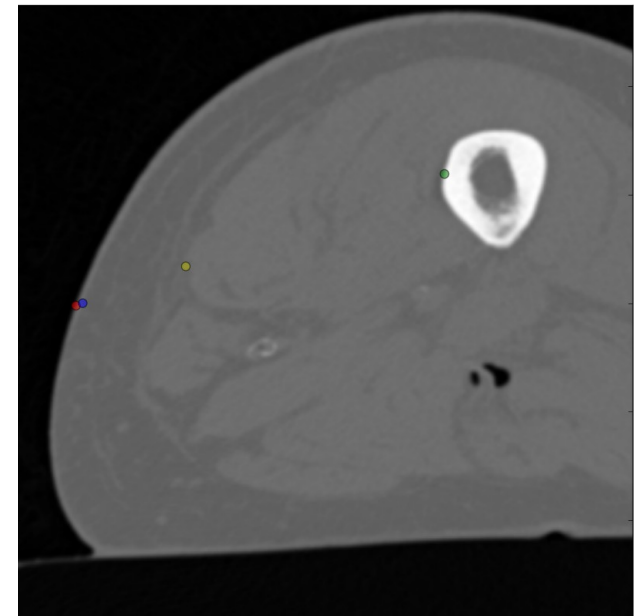
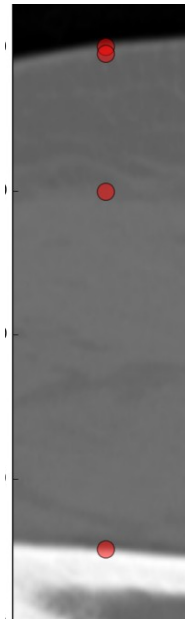
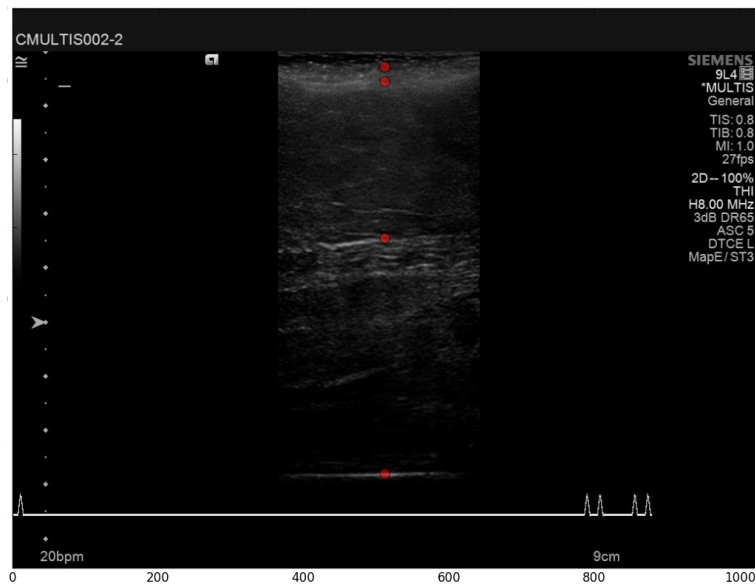


	US	CT_zProbe	CT_zSlice
Skin	2.00	1.88	2.05
Fat	14.91	12.42	12.81
Muscle	35.28	27.66	26.14

014_CMULTIS002-2_UL_MP_A-2

014_CMULTIS002-2_UL_MP_A-2 : Frame = 72

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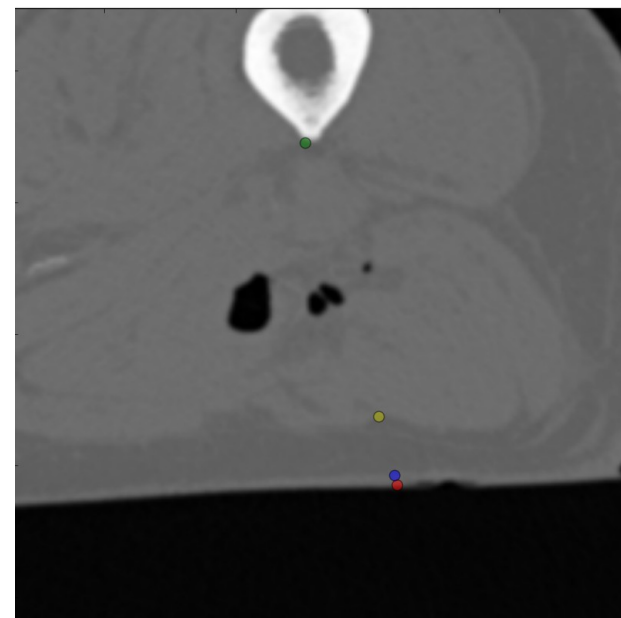
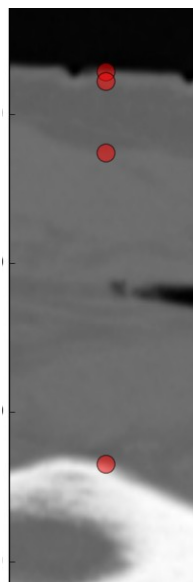
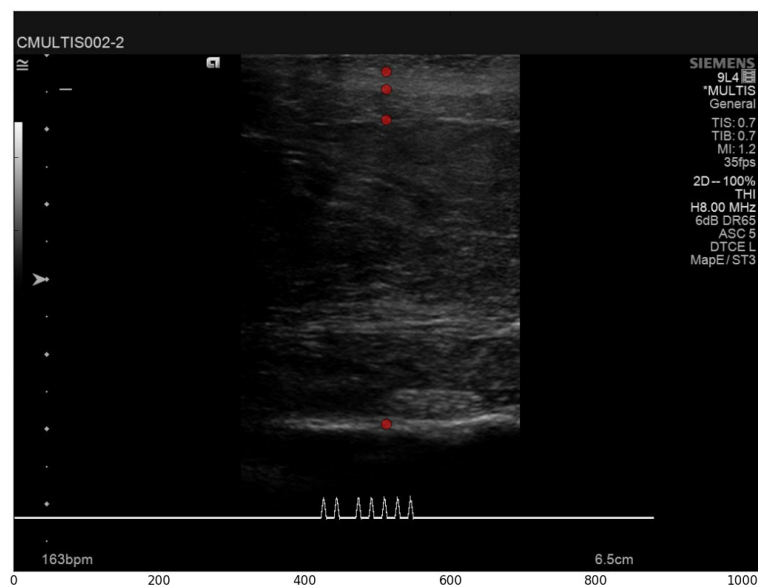


	US	CT_zProbe	CT_zSlice
Skin	2.74	1.41	1.86
Fat	28.93	28.13	28.49
Muscle	43.65	72.89	71.50

031_CMULTIS002-2_UL_PP_A-1

031_CMULTIS002-2_UL_PP_A-1 : Frame = 86

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	US	CT_zProbe	CT_zSlice
Skin	2.35	1.88	2.14
Fat	4.08	14.06	13.04
Muscle	40.67	61.17	60.72

Total Thickness Differences Upper Leg (US - CT)

	Proximal	Central	Distal	Avg.
Lateral	10.23	8.47	5.99	8.23
Anterior	1.92	0.69	2.77	1.79
Medial	-27.11	-24.91	-19.91	-23.97
Posterior	-30.01	-27.34	-13.20	-23.52

Large error is expected with the posterior location because the tissue shifts when the leg is flipped to perform posterior ultrasound locations.

Large error in medial is not expected, however we moved the position of the leg between CT and ultrasound. The greater trochanter was dropped while the ball of the hip was lifted, making the tissue “bulge” more on the lateral side and “sag” more on the medial side.