

**Supplementary Table 2.** Correlations among body composition parameters related to muscle

Variable	Total		Male		Female		Male				Female			
	<i>r</i>	<i>P</i> value	<i>r</i>	<i>P</i> value	<i>r</i>	<i>P</i> value	Slope	Intercept	<i>R</i> <sup>2</sup>	<i>P</i> value	Slope	Intercept	<i>R</i> <sup>2</sup>	<i>P</i> value
Muscle mass (CSMA)														
BMD	0.395	<0.001	0.146	0.092	0.129	0.142	18.709	131.803	0.021	0.009	9.385	89.124	0.017	0.142
VAT	0.318	<0.001	0.217	0.010	-0.078	0.362	0.097	140.988	0.047	<0.001	-0.027	100.926	0.006	0.362
SAT	-0.085	0.158	0.418	<0.001	-0.090	0.292	0.174	126.114	0.175	<0.001	-0.022	102.408	0.008	0.292
BMI	0.410	<0.001	0.590	<0.001	0.130	0.127	4.604	39.240	0.350	<0.001	0.660	82.957	0.017	0.127
VAT_SUV <sub>max</sub>	-0.167	0.005	-0.176	0.038	-0.010	0.912	-29.930	165.081	0.038	0.031	-0.867	98.800	0.912	<0.001
SAT_SUV <sub>max</sub>	-0.122	0.041	-0.220	0.009	0.040	0.643	-56.863	169.993	0.009	0.048	5.560	96.663	0.643	0.002
Muscle_SUV <sub>max</sub>	-0.225	<0.001	0.030	0.722	-0.051	0.549	<0.001	0.669	0.001	0.722	-0.001	0.851	0.003	0.549
Muscle quality (HU)														
BMD	0.263	<0.001	-0.109	0.211	0.170	0.052	-0.004	1.246	0.012	0.211	0.006	0.825	0.029	0.052
VAT	0.054	0.373	-0.125	0.144	-0.268	0.001	-1.190	161.666	0.016	0.144	-2.120	143.300	0.072	0.001
SAT	-0.151	0.012	0.131	0.125	-0.101	0.241	1.337	109.856	0.017	0.125	-1.161	213.228	0.010	0.241
BMI	0.162	0.007	0.142	0.096	-0.071	0.408	0.077	22.132	0.020	0.096	-0.039	24.355	0.005	0.408
VAT_SUV <sub>max</sub>	-0.028	0.642	0.082	0.338	0.054	0.529	0.002	0.341	0.007	0.338	0.002	0.407	0.003	0.529
SAT_SUV <sub>max</sub>	0.009	0.881	0.028	0.744	0.103	0.229	<0.001	0.286	0.001	0.744	0.002	0.265	0.011	0.229
Muscle_SUV <sub>max</sub>	-0.240	<0.001	0.036	0.672	-0.202	0.017	0.001	0.667	0.001	0.672	-0.007	0.955	0.041	0.017

CSMA, cross-sectional muscle area; BMD, bone mineral density; VAT, visceral adipose tissue; SAT, subcutaneous adipose tissue; BMI, body mass index; SUV<sub>max</sub>, maximum standardized uptake value; HU, Hounsfield unit.