

Supplementary Material

Table S1. The area under ROC curve (AUC), optimal cut-off values, sensitivity (Sens.), specificities (Spec.) and Youden Index of anthropometric indices in sarcopenia by using FMI-FFMI or FM to FFM ratio in women.

Anthropometric indices	FFMI-FMI-sarcopenia							
	AUC	SD	95% CI	<i>p</i>	Cut off	Sens.	Spec.	Youden Index
Σ4 skinfolds, mm	0.72	0.06	0.66–0.78	<0.0001	52.8	61.9	78.8	0.41
ABSI, m ^{11/6} kg ^{-2/3}	0.52	0.06	0.45–0.58	0.8020	0.08	4.76	82.8	0.12
AMA, cm	0.71	0.06	0.65–0.77	0.0003	32.2	61.9	80.3	0.42
AVI, cm ²	0.70	0.05	0.64–0.76	<0.0001	16.2	100	40.4	0.40
BAI, %	0.75	0.05	0.69–0.81	<0.0001	24.9	57.1	88.7	0.46
BMI, kg/m ²	0.79	0.05	0.73–0.84	<0.0001	22.7	85.7	61.1	0.68
BRI, -	0.72	0.05	0.65–0.77	<0.0001	3.52	95.2	48.8	0.44
FFM, %	0.58	0.06	0.52–0.65	0.1273	60.8	95.2	30.0	0.25
FM, %	0.59	0.05	0.53–0.66	0.0861	35.5	90.5	36.9	0.27
FM/FFM, -	0.58	0.06	0.52–0.65	0.1386	0.64	95.2	30.5	0.26
MAC, cm	0.75	0.05	0.69–0.80	<0.0001	27.0	80.9	57.6	0.39
MUAC, cm	0.71	0.06	0.65–0.77	0.0003	20.1	61.9	80.3	0.42
MUAC/H, -	0.76	0.05	0.70–0.82	<0.0001	0.15	57.1	83.7	0.41
RFM, -	0.72	0.05	0.65–0.77	<0.0001	36.7	95.2	48.8	0.44
WC, cm	0.70	0.05	0.63–0.76	<0.0001	86	95.2	42.9	0.38
WHR, -	0.62	0.05	0.56–0.69	0.015	0.82	90.5	46.8	0.37
WHtR, -	0.72	0.05	0.65–0.77	<0.0001	0.51	95.2	48.8	0.44

ABSI, body shape index; AMA, arm muscular area; AVI, abdominal volume index; BAI, body obesity index; BMI, body mass index; BRI, body roundness index; H, height; HC, hip circumference; FFM, fat free mass; FFMI, fat free mass index; FM, fat mass; FMI, fat mass index; MAC, muscle arm circumference; MUAC, mid-upper arm circumference; RFM, Relative Fat Mass; SD, standard deviation; WC, waist circumference; WHR, waist-to-hip ratio; WHtR, waist-to-height ratio.

Table S2. The area under ROC curve (AUC), optimal cut-off values, sensitivity (Sens.), specificities (Spec.) and Youden Index of anthropometric indices in predicting sarcopenic obesity by using FMI-FFMI or FM to FFM ratio in women.

Anthropometric indices	FFMI-FMI-sarcopenic obesity							
	AUC	SD	95% CI	<i>p</i>	Cut off	Sens.	Spec.	Youden Index
∑4 skinfolds, mm	0.79	0.04	0.73–0.84	<0.0001	84.9	78.9	69.9	0.49
ABSI, m ^{11/6} kg ^{-2/3}	0.72	0.04	0.66–0.78	<0.0001	0.07	84.2	55.9	0.40
AMA, cm	0.90	0.02	0.85–0.94	<0.0001	24.3	89.5	79.0	0.68
AVI, cm ²	0.96	0.01	0.93–0.98	<0.0001	20.0	97.4	86.6	0.84
BAI, %	0.94	0.02	0.90–0.97	<0.0001	34.3	86.8	87.1	0.74
BMI, kg/m ²	0.96	0.01	0.92–0.98	<0.0001	31.6	94.7	90.3	0.85
BRI, -	0.95	0.01	0.92–0.98	<0.0001	5.85	94.7	88.2	0.83
FFM, %	0.95	0.01	0.97–1.00	<0.0001	55.6	100	98.9	0.99
FM, %	1.00	0.00	0.98–1.00	<0.0001	44.4	100	100	1.00
FM/FFM, -	0.87	0.03	0.82–0.91	<0.0001	17.5	92.1	76.3	0.68
MAC, cm	0.90	0.02	0.85–0.94	<0.0001	47.0	89.5	79.0	0.68
MUAC, cm	0.98	0.01	0.96–1.00	<0.0001	13.4	97.4	91.4	0.89
MUAC/H, -	0.92	0.02	0.88–0.95	<0.0001	31.5	84.2	86.6	0.71
RFM, -	0.93	0.02	0.89–0.96	<0.0001	0.19	92.1	83.9	0.76
WC, cm	0.95	0.01	0.92–0.98	<0.0001	43.6	94.7	88.2	0.83
WHR, -	0.96	0.01	0.92–0.98	<0.0001	99	97.4	86.0	0.84
WHtR, -	0.84	0.03	0.79–0.89	<0.0001	0.84	94.7	71.0	0.66

ABSI, body shape index; AMA, mid-arm muscular area; AVI, abdominal volume index; BAI, body obesity index; BMI, body mass index; BRI, body roundness index; H, height; HC, hip circumference; FFM, fat free mass; FFMI, fat free mass index; FM, fat mass; FMI, fat mass index; MAC, muscle arm circumference; MUAC, mid-upper arm circumference; RFM, Relative Fat Mass; SD, standard deviation; WC, waist circumference; WHR, waist-to-hip ratio; WHtR, waist-to-height ratio.