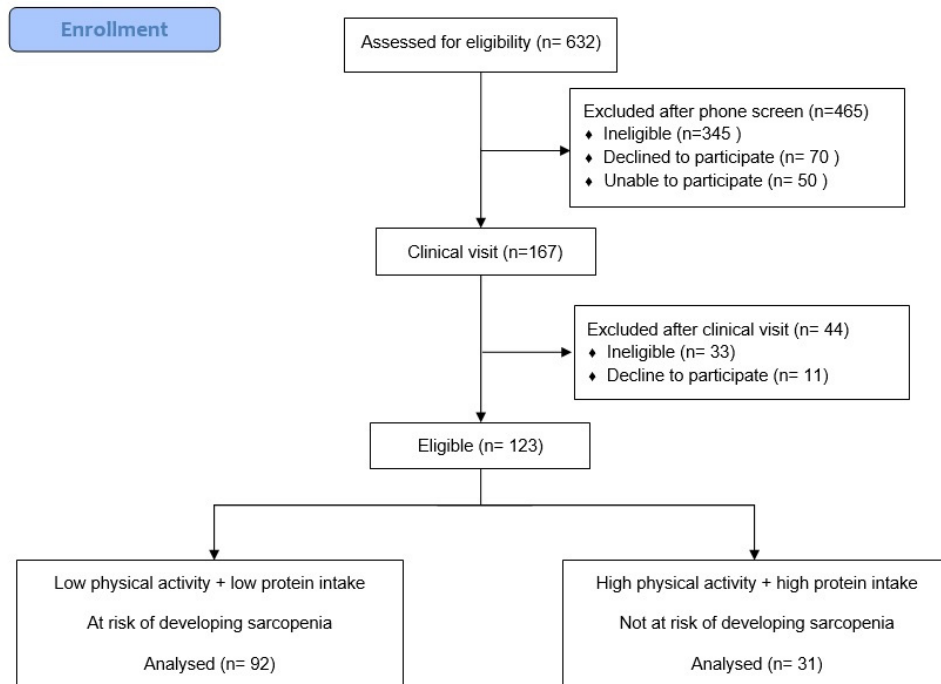


Supplementary Figure S1. CONSORT Participant Flow Diagram



Supplementary Table S1. Body composition, strength and physical function in participants who meet functional criteria of sarcopenia versus high risk participants

	Functional Sarcopenia (n=17)	Other High Risk (n=75)	p-values
Age	72.2 (68.8-79.3)	72.3 (68.6-75.3)	0.530
Female n (%)	14 (82%)	57 (80%)	0.753
<i>Body Composition</i>			
Weight (kg)	80.7 (12.1)	82.2 (14.9)	0.699
BMI (kg·m ²)	31.3 (5.1)	30.2 (4.7)	0.370
FFM (kg)	44.79 (42.33-46.88)	44.43 (41.48-52.00)	0.669
FFMI (kg·m ²)	17.27 (16.46-18.83)	16.77 (15.88-18.86)	0.597
Lean mass (%)	50 (10)	60 (10)	0.350
ASMM (kg)	18.90 (17.23-19.88)	18.43 (16.99-22.15)	0.536
ASMMI (kg·m ²)	7.12 (6.70-8.15)	7.07 (6.46-8.03)	0.829
Fat mass (kg)	37.18 (26.33-45.17)	33.82 (27.65-41.07)	0.721
Fat mass index (kg·m ²)	15.12 (10.52-17.26)	12.41 (10.37-15.23)	0.347
Fat (%)*	50 (40-50)	40 (40-50)	0.241
VAT mass (kg)	1.12 (0.90-1.51)	1.36 (0.99-1.93)	0.263
Total body bone mineral content (kg)	2.10 (2.03-2.58)	2.31 (2.07-2.77)	0.170
Spine BMD g/cm ²	1.19 (0.24)	1.21 (0.20)	0.770
Spine BMD T-scores,	0.07 (1.95)	0.16 (1.62)	0.832
Total hip BMD g/cm ²	0.91 (0.19)	0.95 (0.12)	0.205
Total hip BMD T-scores	-0.90 (1.52)	-0.55 (0.92)	0.226
<i>Strength</i>			
Five chair stand test (s)	12.3 (10.0-17.2)	11.0 (9.4-13.2)	0.099
Thirty second sit-to-stand (stands)*	10.9 (2.7)	13.1 (2.8)	0.006
Grip strength, total (kg)	25.0 (20.0-28.0)	26.0 (23.0-30.0)	0.113
Shoulder adduction strength (kg)	8.0 (3.0-10.0)	12.0 (7.5-16.5)	0.002
Shoulder abduction strength (kg)	4.5 (3.0-7.5)	7.5 (4.0-11.5)	0.049
<i>Physical Function</i>			
SPPB score (total)	8.0 (8.0-11.0)	11.0 (10.0-12.0)	<0.001
Gait speed (m·s ⁻¹)	0.8 (0.8-0.8)	1.0 (1.0-1.2)	<0.001
TUG (s)	7.9 (7.0-11.0)	7.0 (6.6-7.5)	0.006

Supplementary Table S2. Macronutrient dietary intake in participants who meet functional criteria of sarcopenia versus high risk participants

	Functional Sarcopenia (n=17)	Other High Risk (n=75)	<i>p-values</i>	<i>Energy- adjusted p-values</i>
<i>Macronutrients</i>				
Energy (kJ·day ⁻¹)	5992 (1265)	6257 (1477)	0.506	
Energy (kJ·kg ⁻¹ ·day ⁻¹)	76.8 (17.2)	77.6 (18.9)	0.872	
Protein (g·day ⁻¹)	65.1 (13.7)	64.5 (12.7)	0.867	0.321
Protein (g·kg ⁻¹ ·day ⁻¹)	0.8 (0.7-0.9)	0.8 (0.7-0.9)	0.552	0.238
Carbohydrate (g·day ⁻¹)	138.9 (132.7-163.7)	150.5 (121.3-184.4)	0.359	0.460
Fibre (g·day ⁻¹)	18.6 (17.5-27.7)	19.7 (15.0-25.3)	0.925	0.546
Fat (g·day ⁻¹)*	62.5 (42.8-67.9)	53.7 (44.1-69.1)	0.942	0.564
SFA (g·day ⁻¹)	22.0 (8.3)	22.0 (8.4)	0.989	0.571
MUFA (g·day ⁻¹)	20.8 (14.5-27.9)	20.2 (16.1-26.0)	0.859	0.334
PUFA (g·day ⁻¹)	7.5 (6.0-9.0)	8.0 (6.4-10.2)	0.307	0.410

Supplementary Table S3. Physical activity levels in participants who meet functional criteria of sarcopenia versus high risk participants

	Functional Sarcopenia (n=17)	Other High Risk (n=75)	<i>p-values</i>
<i>Activity Dimension Indices</i>			
Vigorous Activity index (units·month ⁻¹)	0.0 (0.0-10.0)	5.0 (0.0-15.0)	0.555
Leisure walking index (units·month ⁻¹)	8.0 (4.0-24.0)	16.0 (8.0-24.0)	0.099
Moving index (units·month ⁻¹)	7.9 (3.0)	8.6 (2.7)	0.378
Standing index (units·month ⁻¹)	4.0 (2.0-4.0)	4.0 (2.0-4.0)	0.854
Sitting index (units·month ⁻¹)	2.4 (0.6)	2.3 (0.8)	0.875
Total activity dimension indices	33.2 (18.4)	37.9 (15.4)	0.278
<i>Activities</i>			
Brisk walking (hours·week ⁻¹)	0.0 (0.0-0.3)	0.0 (0.0-2.0)	0.108
Stretch/yoga/tai chi (hours·week ⁻¹)	0.0 (0.0-1.0)	0.0 (0.0-1.0)	0.845
Aerobics (hours·week ⁻¹)	0.0 (0.0-0.0)	0.0 (0.0-0.0)	0.498
Cycling (hours·week ⁻¹)	0.0 (0.0-0.0)	0.0 (0.0-0.0)	0.469
Lap swimming (hours·week ⁻¹)	0.0 (0.0-0.0)	0.0 (0.0-0.0)	0.404
Strength exercise (hours·week ⁻¹)	0.0 (0.0-0.0)	0.0 (0.0-0.0)	0.318
Leisurely walking (hours·week ⁻¹)	0.5 (0.0-1.8)	1.0 (0.0-2.0)	0.550

Supplementary Table S4. Quality of life in participants who meet functional criteria of sarcopenia versus high risk participants

	Functional Sarcopenia (n=17)	Other High Risk (n=75)	<i>p-values</i>
Physical function	70 (40-80)	85 (75-95)	0.002
Role limitations due to physical function	75 (50-100)	100 (75-100)	0.035
Pain			
General health	72 (57-82)	82 (67-87)	0.046
Energy	60 (55-65)	70 (60-80)	0.005
Social function	88 (75-100)	100 (88-100)	0.011
Role limitations due to emotional health	100 (33-100)	100 (100-100)	0.255
Emotional well-being	80 (64-88)	84 (76-88)	0.242
Physical component score	44 (35-49)	51 (47-55)	0.004
Mental component score	53 (45-58)	56 (52-58)	0.222

Supplementary Table S5. Quality of life SF-36 sub-domains and overall component scores by group

	High risk (n=92)	Low risk (n=31)	<i>p-values</i>
Physical function	85 (70-95)	95 (90-100)	<0.001
Role limitations due to physical function	100 (75-100)	100 (100-100)	0.034
Pain	74 (62-100)	74 (72-84)	0.815
General health	81 (67-87)	85 (77-92)	0.006
Energy	68 (60-80)	80 (70-85)	0.011
Social function	100 (75-100)	100 (88-100)	0.469
Role limitations due to emotional health	100 (100-100)	100 (100-100)	0.054
Emotional well-being	84 (76-88)	84 (80-92)	0.240
Physical component score	50 (44-55)	54 (50-57)	0.013
Mental component score	55 (51-58)	56 (53-58)	0.378

Data presented as median (IQR).