

Table. Supplemental Digital Content 4: Interclass correlations coefficient (ICC), Spearman's rank correlation (ρ), Kappa statistics (κ), and 95% confidence interval (95% CI) for test-retest reliability ^a, and concurrent validity ^b of the Muscle-Strengthening Exercise Questionnaire (MSEQ)-Long items.

MSEQ-Long items (4 types of MSE assessed separately)	Test-retest reliability ^a				Concurrent validity ^b	
	ICC (95%CI)	ρ (95% CI)	κ (95% CI)	% Agreement	ICC (95%CI)	ρ (95% CI)
<i>Days per week (usual week)</i>						
Use weight machines ^e	0.85 (0.74-0.91)	0.79 (0.60-0.94)	–	–	0.69 (0.16-0.86)	0.76 (0.59-0.89)
Body weight exercises ^f	0.93 (0.88-0.96)	0.86 (0.73-0.93)	–	–	0.74 (0.56-0.85)	0.59 (0.36-0.76)
Use resistance bands or free weights ^g	0.95 (0.92-0.97)	0.87 (0.73-0.95)	–	–	0.72 (0.35-0.86)	0.64 (0.38-0.84)
Holistic exercises ^h	0.95 (0.91-0.97)	0.83 (0.65-0.95)	–	–	0.78 (0.45-0.89)	0.77 (0.60-0.89)
<i>Duration (minutes/per day)</i>						
Use weight machines ^e	0.90 (0.82-0.94)	0.82 (0.67-0.93)	–	–	0.60 (0.18-0.79)	0.73 (0.56-0.87)
Body weight exercises ^f	0.88 (0.79-0.93)	0.77 (0.60-0.87)	–	–	0.39 (-0.04-0.64)	0.34 (0.08-0.56)
Use resistance bands or free weights ^g	0.89 (0.82-0.94)	0.79 (0.62-0.90)	–	–	0.78 (0.37-0.90)	0.74 (0.55-0.86)
Holistic exercises ^h	0.96 (0.94-0.98)	0.88 (0.74-0.96)	–	–	0.70 (0.38-0.84)	0.73 (0.54-0.87)
<i>Level of intensity ^c</i>						
Use weight machines ^e	0.90 (0.83-0.94)	0.82 (0.66-0.95)	–	–	0.73 (0.38-0.87)	0.71 (0.52-0.85)
Body weight exercises ^f	0.93 (0.89-0.96)	0.78 (0.61-0.90)	–	–	0.35 (-0.07-0.61)	0.30 (0.03-0.55)
Use resistance bands or free weights ^g	0.93 (0.88-0.96)	0.76 (0.59-0.88)	–	–	0.78 (0.21-0.91)	0.68 (0.52-0.82)
Holistic exercises ^h	0.89 (0.82-0.94)	0.81 (0.63-0.94)	–	–	0.69 (0.43-0.83)	0.63 (0.41-0.78)
<i>Muscle groups used ^d</i>						
Use weight machines ^e						
Legs	–	–	0.70 (0.49-0.88)	85.2	–	–
Hips	–	–	0.61 (0.34-0.85)	87.0	–	–
Back	–	–	0.74 (0.54-0.89)	87.0	–	–
Abdomen	–	–	0.33 (-0.01-0.65)	81.5	–	–
Chest	–	–	0.78 (0.59-0.93)	88.9	–	–
Shoulders	–	–	0.85 (0.67-0.96)	92.6	–	–
Arms	–	–	0.81 (0.63-0.96)	90.7	–	–
Body weight exercises ^f						
Legs	–	–	0.51 (0.19-0.79)	85.2	–	–
Hips	–	–	0.83 (0.65-0.96)	92.6	–	–
Back	–	–	0.40 (0.14-0.64)	72.7	–	–
Abdomen	–	–	0.71 (0.41-0.93)	90.7	–	–
Chest	–	–	0.54 (0.23-0.80)	85.2	–	–
Shoulders	–	–	0.53 (0.26-0.74)	77.8	–	–
Arms	–	–	0.57 (0.33-0.79)	79.6	–	–
Use resistance bands or free weights ^g						
Legs	–	–	0.55 (0.23-0.81)	87.0	–	–
Hips	–	–	0.66 (0.45-0.85)	83.3	–	–
Back	–	–	0.49 (0.16-0.74)	81.5	–	–
Abdomen	–	–	0.44 (0.19-0.67)	72.2	–	–
Chest	–	–	0.33 (0.02-0.60)	75.9	–	–
Shoulders	–	–	0.84 (0.55-1.00)	96.3	–	–
Arms	–	–	0.63 (0.22-0.92)	92.6	–	–
Holistic exercises ^h						

Legs	–	–	0.58 (0.34-0.79)	79.6	–	–
Hips	–	–	0.61 (0.38-0.81)	81.5	–	–
Back	–	–	0.74 (0.50-0.91)	88.9	–	–
Abdomen	–	–	0.66 (0.45-0.85)	83.3	–	–
Chest	–	–	0.69 (0.44-0.88)	87.0	–	–
Shoulders	–	–	0.57 (0.34-0.78)	81.5	–	–
Arms	–	–	0.76 (0.53-0.94)	90.7	–	–

^a Test and retest of MSEQ was conducted a maximum of 14 days apart.

^b To assess the concurrent validity, respondents completed the MSE 7-day log for 7 consecutive days a maximum of 14 days after the first administration.

^c To assess level of intensity, using the previously validated OMNI-Resistance Exercise Scale (Robertson et al., 2003), respondents was asked to report for each type of muscle-strengthening exercise “on a scale of 0-10 please indicate how hard you feel you exercise when you are doing ... with 0 representing “extremely easy” and 10 representing “extremely hard”.

^d To assess muscle groups used, respondents were asked when they undertake muscle-strengthening exercise, do they do exercise that target the following muscle groups legs, hips, back, abdomen, chest, shoulders, and arms.

^e Weight machines defined as using weight machines such as leg press, chest press, lat pulldown.

^f Body weight exercises defined as doing push-ups, sit-ups.

^g Resistance exercises defined as using resistance bands or free weights like dumbbells.

^h Holistic exercises defined as doing Yoga, Tai-Chi and Pilates.

– results not applicable for this variable.