

Multimedia Appendix 2. Internal consistency and Inter-rater agreement (IRA) indices for the uMARS scores

		Cronbach's alpha	Inter-rater agreement		
			$r_{WG(J)}$	$a_{WG(J)}$	$A_{DM[JJ](adj)}$
Engagement	Overall	0.75			
	<i>Lark</i>	0.88	0.75	0.52	0.82
	<i>MyFitnessPal</i>	0.93	0.54	0.19	1.14
	<i>MyDietCoach</i>	0.46	0.79	0.62	0.65
	<i>MyDietDiary</i>	0.71	0.66	0.38	1.01
	<i>MyPlate</i>	0.63	0.86	0.74	0.56
	<i>SparkPeople</i>	-0.04	0.83	0.70	0.56
Functionality	Overall	0.61			
	<i>Lark</i>	0.49	0.88	0.60	0.52
	<i>MyFitnessPal</i>	0.67	0.86	0.66	0.48
	<i>MyDietCoach</i>	0.43	0.84	0.66	0.62
	<i>MyDietDiary</i>	0.85	0.87	0.76	0.59
	<i>MyPlate</i>	0.47	0.85	0.63	0.52
	<i>SparkPeople</i>	0.45	0.82	0.68	0.67
Aesthetics	Overall	0.71			
	<i>Lark</i>	0.42	0.75	0.44	0.80
	<i>MyFitnessPal</i>	0.74	0.91	0.83	0.48
	<i>MyDietCoach</i>	0.74	0.84	0.70	0.61
	<i>MyDietDiary</i>	0.67	0.88	0.79	0.45
	<i>MyPlate</i>	0.44	0.91	0.79	0.41
	<i>SparkPeople</i>	0.86	0.79	0.65	0.69
Information	Overall	0.51			
	<i>Lark</i>	0.23	0.74	0.38	0.77
	<i>MyFitnessPal</i>	-0.79	0.78	0.59	0.67
	<i>MyDietCoach</i>	0.31	0.72	0.48	0.86
	<i>MyDietDiary</i>	0.23	0.82	0.68	0.64
	<i>MyPlate</i>	0.46	0.67	0.39	0.82
	<i>SparkPeople</i>	0.15	0.67	0.41	0.94
Subjective quality	Overall	0.88			
	<i>Lark</i>	0.93	0.41	-0.07	0.77
	<i>MyFitnessPal</i>	0.75	0.54	0.03	0.67
	<i>MyDietCoach</i>	0.77	0.80	0.57	0.86
	<i>MyDietDiary</i>	0.74	0.81	0.62	0.64
	<i>MyPlate</i>	0.86	0.76	0.56	0.82
	<i>SparkPeople</i>	0.89	0.85	0.64	0.94

Notes: Internal consistency (Cronbach's alpha) is excellent ($\geq .90$), good (.80–.89), acceptable (.70–.79), questionable (.60–.69), poor (.50–.59) and unacceptable (<.50).[38]

Inter-rater agreement indices: $r_{WG(J)}$: multi-item version of the r_{WG} index, developed by James et al. (1984).[67,68] The value represents the median of the $r_{WG(J)}$ values obtained using a uniform, normal, slight, and moderate skew null distribution, as recommended by Biemann et

al.:[69] agreement cut-offs: no agreement (<.29), weak (.03-49), moderate (.50-.69), strong (.70-.89), very strong (>.90).[65,66]

a_{WG} : multi-item version of Brown and Hauenstein's a_{WG} index;[70] agreement cut-offs: not acceptable (<.59), weak (.60-69), moderate (.70-.79), strong (>.80).[70].

$A_{DMJ(adj)}$: multi-item version of the adjusted average deviation index $A_{DM(adj)}$.[71]; values above .80 represent agreement.[71]