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Table S1: Baseline Characteristics of the Study Participants

Characteristic		ERW (n=29)	MW (n=24)	P value
Demographic				
	years			
Age		39.3±8.9	41.0±9.3	0.523*
Sex	no. (%)			1.000 [†]
Female		25 (86.2%)	21(87.5%)	
Male		4 (13.8%)	3 (12.5%)	
Marital status	no. (%)			0.378 [‡]
Married		18 (62.1%)	12 (50.0%)	
Single		11 (37.9%)	12 (50.0%)	
Educational level	no. (%)			0.701 [§]
High school		3 (10.3%)	2 (8.3%)	
College/University		21 (72.4%)	17 (70.8%)	
Postgraduate		5 (17.2%)	5 (20.8%)	
Occupation	no. (%)			0.886 [§]
Professionals		6 (20.7%)	5 (20.8%)	
White collar		20 (69.0%)	17 (70.8%)	
Blue collar		3 (10.3%)	2 (8.3%)	
Clinical				
d-ROMs	U.CARR	301.3 ± 68.6	347.3 ± 94.9	0.046*
BAP	µmol/L	2027.4 ± 226.9	2015.7 ± 274.8	0.734
TBARS (MDA)	µM	9.88 ± 4.67	8.90 ± 5.98	0.506*
8-OHdG	ng/mL	14.33 ± 6.88	10.90 ± 6.42	0.069*
oxLDL	U/L	52.43 ± 17.38	49.38 ± 13.61	0.520
GPx	nmol/min/mL	151.4 ± 31.1	140.1 ± 34.9	0.180
Body Mass Index	kg/m ²	22.2 ± 3.0	23.0 ± 3.1	0.357*
Blood pressure	mmHg			
Systolic		116.3 ± 10.6	116.3 ± 9.5	0.943 [†]
Diastolic		72.0 ± 11.6	72.4 ± 9.5	0.971
Glucose	mg/dL	92.8 ± 7.5	92.3 ± 6.9	0.805*
AST	IU/L	20.0 ± 6.0	23.4 ± 17.4	0.872
ALT	IU/L	23.8 ± 46.3	22.1 ± 28.7	0.566
LDL-C	mg/dL	119.3 ± 30.9	111.8 ± 26.1	0.350*
TG	mg/dL	93.5 ± 59.4	104.5 ± 160.1	0.879

Note: Continuous variables are given as means ± standard deviations (SD) and compared by *T test or ^{||}Mann-Whitney U Test. Categorical variables are given as numbers (no) with percentages (%) and compared by [‡]Pearson's Chi-Squared Test, [†]Fisher's Exact Test, or [§]Linear-by-Linear Association as appropriate. Abbreviations: ERW, Electrolyzed Reduced Water; MW, Mineral Water; d-ROMs, diacron-Reactive Oxygen Metabolites; BAP, Biological Antioxidant Potential; TBARS, Thiobarbituric Acid Reactive Substances; MDA, Malondialdehyde; 8-OHdG, 8-Hydroxy-2-Deoxyguanosine; oxLDL, Oxidized Low Density Lipoprotein; GPx, glutathione peroxidase; AST, Aspartate aminotransferase ; ALT, Alanine aminotransferase; LDL-C, Low-Density Lipoprotein Cholesterol; TG, Triglyceride.

Table S2: Effect of Treatment on the Primary Outcome Variables: Biomarkers of Oxidative Stress

Outcome Variables	ERW (n=29) Means±SD	MW (n=24) Means±SD	Main Effects of Repeated Measures ANOVA				
			Effect	F	df	<i>p</i>	η^2
d-ROMs	U.CARR						
Baseline	301.3±68.6	347.3±94.9	Time	6.61	1,68,85.65	0.004	0.115
4 wks	286.7±45.1	306.3±54.8	Group	8.04	1,51	0.007	0.136
8 wks	288.0±50.0	349.6±62.7	Time*Group	3.44	1,68,85.65	0.044	0.063
BAP	umol/L						
Baseline	2027.4±226.9	2015.7±274.8	Time	258.47	2,102	0.000	0.835
4 wks	2585.9±258.8	2504.8±187.8	Group	0.03	1,51	0.875	0.000
8 wks	2603.9±255.9	2670.4±180.2	Time*Group	3.20	2,102	0.045	0.059
TBARS (MDA)	μM						
Baseline	9.88±4.67	8.90±5.98	Time	6.23	2,102	0.003	0.109
4 wks	6.84±3.99	8.95±6.14	Group	0.06	1,51	0.809	0.001
8 wks	6.97±4.51	6.63±4.47	Time*Group	2.45	2,102	0.091	0.046
8-OHdG	ng/mL						
Baseline	14.33±6.88	10.90±6.42	Time	3.52	2,102	0.033	0.065
4 wks	13.87±8.31	15.63±11.18	Group	0.29	1,51	0.594	0.006
8 wks	11.87±7.90	10.87±7.00	Time*Group	2.02	2,102	0.138	0.038
oxLDL	U/L						
Baseline	52.43±17.38	49.38±13.61	Time	1.11	2,102	0.332	0.021
4 wks	53.60±15.32	52.00±12.94	Group	0.17	1,51	0.679	0.003
8 wks	52.24±15.97	52.1±12.99	Time*Group	0.63	2,102	0.534	0.012
GPx	nmol/min/mL						
Baseline	151.4±31.1	140.1±34.9	Time	27.07	2,102	0.000	0.347
4 wks	162.8±36.5	161.7±37.9	Group	0.22	1,51	0.639	0.004
8 wks	185.8±30.9	189.6±23.6	Time*Group	0.89	2,102	0.412	0.017

Note: *Interaction between Time and the Group. Abbreviations: ANOVA, Analysis of Variance; F, the F-value; df, degrees of freedom; *p*, statistical significance; η^2 , partial eta squared; d-ROMs, diacron-Reactive Oxygen Metabolites; BAP, Biological Antioxidant Potential; TBARS, Thiobarbituric Acid Reactive Substances; MDA, Malondialdehyde; 8-OHdG, 8-Hydroxy-2-Deoxyguanosine; oxLDL, Oxidized Low-Density Lipoprotein; GPx, Glutathione Peroxidase.

Table S3: Effects of Treatment on the Secondary Outcome Variables: Biochemistry Parameters

Outcome Variables	ERW (n=29)	MW (n=24)	Main Effects of Repeated Measures ANOVA				
	Means \pm SD	Means \pm SD	Effect	F	df	<i>p</i>	η^2
NK Cell Activity	pg/mL						
Baseline	949.0 \pm 810.7	1263.4 \pm 905.2	Time	20.93	2,102	0.000	0.291
4wks	1943.5 \pm 1109.2	1829.0 \pm 1136.7	Group	0.40	1,51	0.528	0.008
8wks	1814.2 \pm 1091.8	2042.0 \pm 964.9	Time*Group	1.26	2,102	0.289	0.024
A.G.E.	AU						
Baseline	2.05 \pm 0.26	2.04 \pm 0.27	Time	20.94	2,102	0.000	0.291
4wks	1.83 \pm 0.32	1.82 \pm 0.23	Group	0.09	1,51	0.767	0.002
8wks	1.82 \pm 0.34	1.91 \pm 0.33	Time*Group	1.42	2,102	0.246	0.027
Glucose	mg/dL						
Baseline	92.8 \pm 7.5	92.3 \pm 6.9	Time	0.02	2,102	0.978	0.000
4wks	92.8 \pm 8.2	92.1 \pm 6.0	Group	0.22	1,51	0.640	0.004
8wks	93.0 \pm 5.9	91.8 \pm 6.2	Time*Group	0.09	2,102	0.916	0.002
HbA1c	mg/dL						
Baseline	5.23 \pm 0.29	5.32 \pm 0.30	Time	15.47	1,47,74.85	0.000	0.233
4wks	5.33 \pm 0.29	5.43 \pm 0.24	Group	1.49	1,51	0.228	0.028
8wks	5.27 \pm 0.27	5.36 \pm 0.25	Time*Group	0.01	1,47,74.85	0.971	0.000
Insulin	uU/mL						
Baseline	8.65 \pm 3.78	8.21 \pm 10.31	Time	2.57	1,71,87.32	0.091	0.048
4wks	6.66 \pm 3.19	7.18 \pm 4.76	Group	0.12	1,51	0.729	0.002
8wks	7.15 \pm 3.19	8.50 \pm 6.78	Time*Group	0.89	1,71,87.32	0.401	0.017
HOMA-IR							
Baseline	2.21 \pm 0.93	1.95 \pm 2.74	Time	2.35	1,61,81.94	0.112	0.044
4wks	1.55 \pm 0.80	1.65 \pm 1.15	Group	0.11	1,51	0.739	0.002
8wks	1.68 \pm 0.80	1.98 \pm 1.61	Time*Group	0.49	1,61,81.94	0.575	0.009
Cortisol	ng/mL						
Baseline	80.81 \pm 35.53	81.78 \pm 25.30	Time	0.30	2,102	0.743	0.006
4wks	76.95 \pm 27.36	79.06 \pm 41.63	Group	0.60	1,51	0.443	0.012
8wks	72.63 \pm 27.47	85.70 \pm 26.27	Time*Group	1.19	2,102	0.308	0.023
TG	mg/dL						
Baseline	88.7 \pm 59.4	113.4 \pm 175.1	Time	0.72	1,28,65.05	0.432	0.014
4wks	88.5 \pm 64.8	94.5 \pm 66.1	Group	0.33	1,51	0.570	0.006
8wks	85.6 \pm 61.6	90.3 \pm 57.8	Time*Group	0.49	1,28,65.05	0.530	0.010
LDL-C	mg/dL						
Baseline	119.3 \pm 30.9	111.8 \pm 26.1	Time	2.71	2,102	0.071	0.051
4wks	120.4 \pm 31.8	117.6 \pm 28.8	Group	0.24	1,51	0.628	0.005
8wks	114.6 \pm 29.5	113.7 \pm 26.1	Time*Group	1.26	2,102	0.288	0.024

HDL -C	mg/dL						
Baseline	65.8±15.8	68.8±14.0	Time	0.16	2,102	0.855	0.003
4wks	66.1±15.8	69.6±16.0	Group	0.93	1,51	0.339	0.018
8wks	65.2±17.2	70.6±15.5	Time*Group	0.53	2,102	0.592	0.010
Lactic Acid	mmol/L						
Baseline	1.76± 0.86	1.52±0.55	Time	0.80	2,102	0.454	0.015
4wks	1.65± 0.65	1.58±0.61	Group	0.15	1,51	0.699	0.003
8wks	1.44± 0.45	1.61±0.47	Time*Group	2.43	2,102	0.093	0.045
Uric Acid	mg/dL						
Baseline	4.29±1.43	4.53±1.09	Time	2.63	2,102	0.077	0.049
4wks	4.26±1.33	4.37±1.20	Group	0.12	1,51	0.732	0.002
8wks	4.49±1.36	4.48±0.93	Time*Group	1.49	2,102	0.231	0.028
TB	mg/dL						
Baseline	0.72±0.38	0.77±0.26	Time	0.35	2,102	0.709	0.007
4wks	0.66±0.31	0.87±0.49	Group	1.47	1,51	0.231	0.028
8wks	0.70±0.36	0.76±0.36	Time*Group	2.01	2,102	0.140	0.038
GGT	IU/L						
Baseline	25.8±27.0	22.9±19.8	Time	0.82	1.36,69.49	0.403	0.016
4wks	24.0±20.4	31.3±44.9	Group	0.18	1,51	0.672	0.004
8wks	21.9±14.5	25.6±24.8	Time*Group	1.25	1.36,69.49	0.281	0.024
AST	IU/L						
Baseline	20.0±6.0	23.4±17.4	Time	1.75	1.69,86.07	0.180	0.033
4wks	19.1±6.1	25.3±23.9	Group	1.72	1,51	0.196	0.033
8wks	18.5±4.9	19.6±6.4	Time*Group	1.00	1.69,86.07	0.359	0.019
ALT	IU/L						
Baseline	23.8±46.3	22.1±28.7	Time	1.00	1.17,59.47	0.335	0.019
4wks	16.3±8.5	54.4±170.6	Group	0.31	1,51	0.020	1.041
8wks	16.3±7.8	20.2±26.1	Time*Group	1.48	1.17,59.47	0.232	0.028
ALP	IU/L						
Baseline	161.4±41.5	165.3±43.0	Time	2.76	2,102	0.068	0.051
4wks	159.9±43.5	170.3±56.4	Group	0.54	1,51	0.468	0.010
8wks	152.2±38.3	163.7±44.0	Time*Group	0.85	2,102	0.432	0.016
Serum Ca	mg/dL						
Baseline	9.00±0.28	9.05±0.27	Time	2.87	2,102	0.062	0.053
4wks	9.08±0.29	9.19±0.31	Group	2.04	1,51	0.159	0.039
8wks	9.05±0.34	9.19±0.45	Time*Group	0.35	2,102	0.707	0.007
Urine Ca	mg/dL						
Baseline	13.08±5.73	11.07±7.72	Time	0.57	2,102	0.567	0.011
4wks	9.84±5.76	13.20±11.79	Group	0.04	1,51	0.848	0.001
8wks	10.94±8.13	10.69±10.84	Time*Group	2.69	2,102	0.073	0.050
NLR							
Baseline	1.90 ±0.81	1.95±0.56	Time	2.19	2,102	0.117	0.041

4wks	1.71±0.54	1.86±0.47	Group	0.34	1,51	0.561	0.007
8wks	1.92±0.84	1.98±0.51	Time*Group	0.23	2,102	0.799	0.004
CRP	mg/dL						
Baseline	0.07±0.13	0.06±0.06	Time	0.02	1,51,77.01	0.952	0.000
4wks	0.08±0.20	0.05±0.06	Group	0.24	1,51	0.628	0.005
8wks	0.05±0.04	0.07±0.06	Time*Group	1.15	1,51,77.01	0.309	0.022

Note: *Interaction between Time and the Group. Abbreviations: NK, Natural Killer; A.G.E., Advanced Glycation End Products; HbA1c, Glycosylated Hemoglobin; HOMA-IR, Homeostatic Model Assessment for Insulin Resistance; AU, Arbitrary Units; TG, Triglyceride; LDL-C, Low-Density Lipoprotein Cholesterol; HDL-C, High-Density Lipoprotein Cholesterol; TB, Total Bilirubin; IU, International Unit; GGT, Gamma-Glutamyltransferase; AST, Aspartate Aminotransferase ; ALT, Alanine Aminotransferase; ALP, Alkaline Phosphatase; NLR, Neutrophil-Lymphocyte Ratio; CRP, C-Reactive Protein.

Table S4: Effects of Treatment on the Secondary Outcome Variables: CAVI, HRV, PhA, and Fat Mass

Outcome Variables	ERW Group (n=29) Means±SD	MW Group (n=24) Means±SD	Effect	Main Effects of Repeated Measures ANOVA			
				F	df	p	η ²
CAVI-Rt							
Baseline	6.44±0.80	6.36±1.06	Time	0.36	1,45, 73.80	0.627	0.007
4wks	6.32±0.80	6.36±0.73	Group	0.11	1,51	0.738	0.002
8wks	6.18±0.69	6.36±0.86	Time*Group	0.38	1,45, 73.80	0.615	0.007
CAVI-Lt							
Baseline	6.52±0.77	6.48±1.11	Time	0.73	1,44, 73.30	0.444	0.014
4wks	6.38±0.83	6.48±0.76	Group	0.32	1,51	0.577	0.006
8wks	6.23±0.69	6.42±0.81	Time*Group	0.29	1,44, 73.30	0.677	0.006
HRV-SDNN	ms						
Baseline	35.95±17.33	30.42±20.05	Time	0.93	2,102	0.399	0.018
4wks	34.05±15.26	35.33±13.47	Group	0.29	1,51	0.590	0.006
8wks	36.99±17.06	37.82±11.28	Time*Group	0.17	2,102	0.845	0.003
HRV-RMSSD	ms						
Baseline	27.49±13.44	27.96±14.20	Time	0.06	2,102	0.939	0.001
4wks	26.74±14.40	29.65±18.59	Group	0.49	1,51	0.487	0.010
8wks	26.03±12.03	28.72±13.04	Time*Group	0.17	2,102	0.845	0.003
HRV-PSI							
Baseline	71.92±81.46	52.85±31.23	Time	0.16	1,77, 90.31	0.825	0.003
4wks	71.54±59.39	54.99±33.62	Group	1.83	1,51	0.182	0.035
8wks	63.09±41.19	54.68±38.06	Time*Group	0.23	1,77, 90.31	0.765	0.005
HRV-TP	ms ²						
Baseline	913.43±613.60	1071.63±876.97	Time	0.69	2,102	0.502	0.013
4wks	985.86±1030.49	1041.21±1223.80	Group	0.07	1,51	0.795	0.001
8wks	1185.43± 1570.90	1115.73±973.82	Time*Group	0.16	2,102	0.851	0.003
HRV-LF/HF							
Baseline	1.52±1.30	2.01±2.14	Time	0.47	2,102	0.629	0.009
4wks	1.64±1.41	1.64±1.79	Group	0.00	1,51	0.958	0.000
8wks	2.19±2.43	1.64±1.34	Time*Group	1.65	2,102	0.197	0.031
Outcome	Means±SD	Means±SD	Effect	F	df	p	η ²

Variables							
Phase Angle	°						
Baseline	5.89±0.85	5.83±0.85	Time	15.74	1.75, 89.01	0.000	0.236
4wks	5.63±0.75	5.67±0.78	Group	0.00	1,51	0.952	0.000
8wks	5.62±0.67	5.60±0.84	Time*Group	0.53	1.75, 89.01	0.566	0.010
Reactance	Ω						
Baseline	58.20±6.77	57.34±8.65	Time	73.61	2,102	0.000	0.591
4wks	64.90±6.64	65.18±9.29	Group	0.26	1,51	0.610	0.005
8wks	65.83±6.82	63.40±7.79	Time*Group	2.05	2,102	0.135	0.039
Impedance	Ω						
Baseline	573.65±72.01	570.64±83.13	Time	364.15	2,102	0.000	0.877
4wks	669.27±85.20	666.11±97.96	Group	0.14	1,51	0.714	0.003
8wks	676.51±81.64	657.39±88.55	Time*Group	2.59	2,102	0.080	0.048
BMI	kg/m ²						
Baseline	22.23±3.11	23.03±3.12	Time	1.85	2,102	0.163	0.035
4wks	22.23±3.16	22.72±3.02	Group	0.60	1,51	0.443	0.012
8wks	22.20±3.12	22.88±2.90	Time*Group	1.70	2,102	0.189	0.032
Fat -Total	kg						
Baseline	16.21±4.88	17.30±5.03	Time	10.12	1.80, 91.60	0.000	0.166
4wks	16.18±5.00	16.55±4.90	Group	0.18	1,51	0.678	0.003
8wks	15.86±4.86	16.10±5.31	Time*Group	3.43	1.80, 91.60	0.041	0.063
Fat-Visceral	kg						
Baseline	1.86±0.96	2.00±0.95	Time	9.96	2,102	0.000	0.163
4wks	1.87±1.00	1.87±0.82	Group	0.04	1,51	0.846	0.001
8wks	1.79±0.94	1.80±0.93	Time*Group	3.76	2,102	0.027	0.069
Fat-Subcutaneous	kg						
Baseline	14.36±3.96	15.30±4.12	Time	9.81	1.78, 90.50	0.000	0.161
4wks	14.30±4.04	14.69±4.11	Group	0.22	1,51	0.644	0.004
8wks	14.07±3.96	14.30±4.41	Time*Group	3.29	1.78, 90.50	0.047	0.061

Note: *Interaction between Time and the Group. Abbreviations: CAVI, Cardio-Ankle Vascular Index; HRV, Heart Rate Variability; PSI, Physical Stress Index; SDNN, Standard Deviation of Normal to Normal Intervals; RMSSD, Root Mean Square of the Successive Differences; PSI, Physical Stress Index; TP, Total Power; LF, Low Frequency; HF, High Frequency; BMI, Body Mass Index.

Table S5: Effects of Treatment on the Secondary Outcome Variables: BEPSI-K, BFI, FSS, and SF-36

Outcome Variables	ERW Group (n=29) Mean±SD	MW Group (n=24) Mean±SD	Main Effects of Repeated Measures ANOVA				
			Effects	F	df	p	η ²
BEPSI-K							
Baseline	1.82± 0.65	1.73±0.51	Time	0.60	2,102	0.553	0.012
4wks	1.71± 0.72	1.73±0.51	Group	0.01	1,51	0.907	0.000
8wks	1.76± 0.73	1.78±0.56	Time*Group	0.68	2,102	0.511	0.013
BFI							
BFI Global							
Baseline	4.14±2.09	4.01±2.27	Time	4.28	2,102	0.016	0.077
4wks	3.60±1.98	3.56±2.09	Group	0.00	1,51	0.964	0.000
8wks	3.28±2.29	3.38±2.28	Time*Group	0.11	2,102	0.901	0.002
BFI Severity							
Baseline	5.69± 2.06	5.36±2.45	Time	3.11	2,102	0.049	0.057
4wks	5.49± 1.77	5.14±2.28	Group	0.33	1,51	0.566	0.007
8wks	4.90± 2.32	4.71±2.40	Time*Group	0.05	2,102	0.956	0.001
BFI Interference							
Baseline	3.36± 2.39	3.33±2.38	Time	3.72	2,102	0.028	0.068
4wks	2.66± 2.37	2.76±2.30	Group	0.04	1,51	0.845	0.001
8wks	2.47± 2.46	2.72±2.41	Time*Group	0.11	2,102	0.895	0.002
FSS							
Baseline	3.58± 1.58	3.65±1.68	Time	1.83	1,74, 88.48	0.172	0.035
4wks	3.15± 1.53	3.40±1.67	Group	0.01	1,51	0.928	0.000
8wks	3.39± 1.81	3.17±1.65	Time*Group	0.68	1,74, 88.48	0.489	0.013
SF-36 Health Survey							
Physical function (PF)							
Baseline	84.14±21.34	84.79±16.12	Time	0.24	2,102	0.785	0.005
4wks	84.83±14.42	80.83±21.30	Group	0.02	1,51	0.884	0.000
8wks	83.79±20.07	85.42±16.08	Time*Group	0.56	2,102	0.572	0.011
Role-Physical (RP)							
Baseline	70.69±35.40	71.88±28.85	Time	0.58	2,102	0.562	0.011
4wks	67.24±36.66	79.17±25.18	Group	0.75	1,51	0.389	0.015
8wks	71.55±35.81	79.17±31.85	Time*Group	1.02	2,102	0.365	0.020
Bodily Pain (BP)							
Baseline	70.78±23.49	76.88±16.83	Time	0.66	2,102	0.518	0.013
4wks	75.60±24.88	77.60±22.49	Group	0.11	1,51	0.747	0.002

8wks	78.71±22.50	75.42±19.46	Time*Group	1.20	2,102	0.307	0.023
General Health (GH)							
Baseline	53.97±18.00	58.75±19.69	Time	0.04	2,102	0.963	0.001
4wks	57.24±15.96	55.63±22.52	Group	0.08	1,51	0.780	0.002
8wks	56.35±18.02	57.29±21.47	Time*Group	1.62	2,102	0.203	0.031
Vitality (VT)							
Baseline	50.17±14.67	56.25±15.90	Time	1.00	2,102	0.371	0.019
4wks	51.21±15.85	53.13±16.14	Group	1.17	1,51	0.285	0.022
8wks	52.76±18.20	57.50±19.73	Time*Group	0.50	2,102	0.608	0.010
Social Functioning (SF)							
Baseline	74.57±20.45	82.81±16.41	Time	0.92	2,102	0.401	0.018
4wks	76.30±19.29	79.69±20.46	Group	1.18	1,51	0.283	0.023
8wks	79.97±22.61	82.71±14.82	Time*Group	0.67	2,102	0.514	0.013
Role-Emotional (RE)							
Baseline	65.52±44.08	79.17±33.79	Time	0.25	2,102	0.778	0.005
4wks	66.67±39.85	80.56±35.33	Group	1.37	1,51	0.248	0.026
8wks	72.41±36.81	77.79±33.57	Time*Group	0.78	2,102	0.463	0.015
Mental Health (MH)							
Baseline	63.72±16.07	67.00±13.36	Time	0.94	2,102	0.395	0.018
4wks	64.41±16.01	62.50±16.38	Group	0.24	1,51	0.628	0.005
8wks	63.90± 19.95	68.33± 16.72	Time*Group	1.43	2,102	0.245	0.027

Note: *Interaction between Time and the Group. Abbreviations: BEPSI-K, Brief Encounter Psychosocial Instrument - Korean version; BFI, Brief Fatigue Inventory; FSS, Fatigue Severity Scale; SF-36, 36-Item Short Form Survey.