1	Supplemental Online Content
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3 4 5	Lowe DA, Wu N, Rohdin-Bibby L, et al. Effects of time-restricted eating on weight loss and other metabolic parameters in women and men with overweight and obesity: the TREAT randomized clinical trial. <i>JAMA Intern Med.</i> Published online September 28, 2020. doi:10.1001/jamainternmed.2020.4153
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7	eMethods and eReferences
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29 Online-Only Supplemental Methods

EXPERIMENTAL MODEL AND SUBJECT DETAILS

- 31 Participants were recruited through targeted email campaigns, Facebook ads, and fliers to join a weight loss study
- 32 investigating the effects of meal timing on weight loss. Subject eligibility was determined using an online eligibility survey
- 33 using the inclusion and exclusion criteria listed below, and all eligible subjects completed an online consent form via the
- 34 Eureka Research Platform.
- 35 Changes to Eligibility Criteria
- 36 Original inclusion criterion was BMI between 30 and 40 kg/m² and subjects who have tried more than 1 structured diet within
- 37 6 months of recruitment were excluded. BMI requirement was expanded and structured diet limit was dropped to increase
- 38 study enrollment.
- 39 Randomization

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56

- 40 Participants were self-enrolled upon completion of eligibility survey if all inclusion criteria were met. Interventions were
- 41 assigned programmatically using the Ruby program. The Ruby program was written to create a schedule of strata and blocks
- 42 based on gender, age, and BMI. The shuffle function was used to make blocks random. The schedule was filtered according
- 43 to stratifiers from the eligibility survey and the next open slot in the schedule was assigned to a participant. Block
- randomization was used with random block sizes of 2 and 4 with equal distribution between study groups. Randomization
- schedule was generated on the backend servers of Eureka; the schedule was only visible to the programmer staff, and the
- sequence was concealed form the clinical staff.
- 47 Sample Size Calculation
- 48 An initial power analysis showed that with a standard deviation (SD) of 9 kg in measured weight, and conservatively assuming
- 49 a intraclass correlation (ICC) of 0.8 between the baseline and follow-up weights, the clinical sample of 50 participants would
- 50 provide 80% power in 2-sided 5% tests to detect a between-group difference in weight change of 5.0 kg.
- In addition, before the data analysis was undertaken, we estimated the minimum detectable effects in the planned analyses
- 52 using linear mixed models (LMMs) for daily weights measured at home by the virtual participants, without using the data.
- 53 Specifically, we estimated that with gradual attrition of 20% of the sample by the end of the trial, 81 of 90 expected daily
- measurements per patient would on average be available. Then under the original assumption of an SD of 9 kg, and
- 55 considering ICCs between 0.8 and 0.95, we estimated that a sample of 100 virtual participants would provide 80% power in
 - 2 cited 50/ tests to detect between differences in weight the part of 44 to 20 be in the part of 45 course.
 - 2-sided 5% tests to detect between-group differences in weight change of .44 to .89 kg; in the observed sample of 116,
 - corresponding estimates are 0.41 to 0.82 kg. In the clinical data, with single pre- and post-measurements, corresponding
- estimates under the same assumptions were 2.5 to 5.0 kg.

Inclusion Criteria	Exclusion Criteria
Male or female ages 18-64	Current or past cancer diagnosis
BMI between 27kg/m ² and 43 kg/m ²	Pregnancy, breastfeeding, or planned pregnancy within 6 months
Regularly consume breakfast (≥5 days/week)	Current diagnosis of type 1 or type 2 Diabetes Mellitus
Willing and able to skip breakfast	Currently taking glucose-lowering drugs or weight loss pills
Speak, read, comprehend English	History of gastric bypass surgery or any weight loss surgery
Access to reliable internet and/or Wi-Fi	>15% weight fluctuation in past 5 years
Have valid email address and phone number	History of anorexia or bulimia
	Frequent travel across time zones or unusual work hours
	Unable to fast for prolonged periods

- 60 Calculated Energy Intake and Energy Expenditure Estimates
- 61 At-home weight measurements from the total cohort were used in a linear mathematical model of body weight dynamics
- to estimate energy intake and energy expenditure as described by Guo et al. ^{1,2}. A 20-day interval was used to reduce
- variability in the model's estimated means of energy intake and energy expenditure.
- 64 Blood Pressure Measurements
- 65 A subset of the total cohort received a MOCACARE MOCACuff blood pressure cuff (Item model number 5031101001) to use
- at home. Participants were instructed to use the blood pressure cuff daily in the morning. Participants were instructed to
- email their data to the study team upon completion of the study.
- 68 Subjective Sleep and Food Attitudes Analyses
- 69 Participants' sleep and food attitudes data were analyzed through the self-reported Pittsburgh Sleep Quality Index (PSQI)
- 70 and Rewards-Based Eating Drive (RED) Scale, respectively. PSQI and RED Scale surveys were sent to the participants
- 71 through the study app.
- 72 In-person Metabolic Testing
- 73 Participants who lived within 60 miles of UCSF were eligible to undergo extensive in-person metabolic testing at the UCSF
- 74 Clinical Research Center and the UCSF Body Composition Laboratory if they had no barriers to performing the tests (able to
- stand unassisted for several minutes, able to lie down for 30 minutes, no internal metal artifacts). In-person study activities
- were partly funded through the Shape Up! Adults study at the UHCC (NCT03637855). Participants who opted into the in-
- 77 person testing group completed measurements detailed by Ng et al.³. 50 participants opted into the in-person testing, and
- 78 46 participants completed all four in-person visits.
- 79 All four study visits began between 8:00-10:30 am, and subjects were instructed to fast starting at 8:00 pm the night before
- 80 the study visit. The first study visit occurred ~1 week before the start of the participant's eating plan. During this visit,
- 81 participants began their doubly-labelled water (DLW) TEE measurement ⁴⁻⁸. ~1 week later at visit 2, participants came into
- 82 the clinic fasted to complete their baseline DLW TEE measurement. Additionally, participants provided blood samples,
- underwent RMR measurements, DXA scans ⁹, manual anthropometrics, and muscle function testing ³ (detailed methodology
- 84 for metabolic testing can be found in the online supplemental methods). The participant's eating plan began the day after
- 85 visit 2. Visit 3 occurred ~1 week prior to the end of the study. During visit 3, participants began their follow-up DLW TEE
- 86 measurement. Visit 4 occurred on the last day of the study. At visit 4, participants completed their follow-up DLW TEE
- 87 measurement, provided blood samples, and underwent RMR measurements, DXA scans, manual anthropometrics, and
- 88 muscle function testing. Participants who used an iPhone were eligible to receive an Oura ring (Oura, Oulu, Finland) to track
- 89 activity and sleep habits. Participants were compensated with a \$50 Visa gift card for each completed study visit.
- 90 Blood Measurements
- 91 At visit 2 and visit 4, a whole blood fasting sample of 40 ml was collected from each participant via venipuncture. All
- 92 participants began fasting at 8:00pm the night before their blood draw, so duration of fasting for blood measures was
- 93 matched between groups. Blood samples were placed on ice and processed within 4 hours into plasma, serum, whole blood,
- 94 and buffy coat components and stored at -80°C at each study site until analysis. Biochemical analyses of all lipid and blood
- 95 chemistry profiles were performed at Pennington Biomedical Research Center (PBRC). Serum chemistry panels were assayed
- 96 through the use of a DXC600 instrument (Beckman Coulter, Inc.; Brea, CA). Insulin was measured by immunoassay on an
- 97 Immulite 2000 platform (Siemens Corporation; Washington, DC). Additionally, EDTA plasma was used for targeted
- 98 metabolomic analysis.
- 99 Total Energy Expenditure (TEE) Measurements

100 Baseline TEE analysis measured TEE for approximately 7 days prior to the study start. Subjects reported to the clinic after an 101 overnight fast. A pre-dose urine specimen was collected and transfer to a 5 mL tube with an elastic o-ring seal. Subjects 102 consumed a weighed dose of doubly labeled water containing, on average, 1.8 g/kg and 0.12 g/kg total body water of 10AP 103 180 water and 99.9 AP 2H water, respectively 8. The container was washed with 50 mL and subjects drank that as well. 104 Subjects voided at 2 hours after the dose and that specimen was discarded. Two additional specimens were collected at 3 105 and 4 hours after the dose, and aliquots were transferred to separate 5 mL o-ring sealed tubes. Urine specimens were stored 106 frozen at -20°C then sent in Styrofoam boxes cooled with frozen gel packets to the University of Wisconsin. Subjects fasted 107 throughout the entire specimen collection period and were provided 250 mL water between dosing and three hours post-108 dose. The volumes of water between the dose and 3 hours were recorded and subtracted from the total body water. Subjects 109 returned to the clinic ~7 days later after an overnight fast. Urine was collected at the beginning and end of the study visit (~2 110 hours apart) and aliquots were transferred to separate 5mL o-ring sealed tubes. Subjects fasted and abstained from fluid 111 intake during the duration of this study visit. Follow-up TEE measurements were collected during the last ~7 days of the study 112 using the same protocol described above.

- Specimens were refrozen until analyzed. As detailed by Thorsen et al ⁷, specimens were thawed and decolorized with 200
- 114 mg of dry carbon black. Specimens were passed through a syringe mounted 45-micron filter to remove carbon black and any
- other solids. Aliquots of 1 mL each were placed in an autoinjector vial and a 15mL septum topped tube for isotopic analysis.
- 116 The 15mL tube was flushed with 0.4% CO2 in helium and 180 isotopic analyses performed on a Delta V Isotope Ratio Mass
- 117 Spectrometer equipped with a Gas Bench inlet (ThermoFisher). The other aliquot was analyzed for 2H on a Delta Plus
- equipped with a HD Device using chromium reduction (ThermoFisher). Calibrated natural abundance and enriched working
- standards were analyzed along with each batch and results expressed on the SMOW scale. Precisions for 18O and 2H were
- 120 0.15 and 1 o/oo, respectively.
- 121 The rate of CO2 production was calculated using equation A6 ⁶ as modified by Racette et al. ⁵. Total daily energy was
- calculated from rCO2 assuming a respiratory ratio of 0.86 using the Weir equation ⁴. Precision is 5% ⁸.
- 123 Resting Metabolic Rate and Respiratory Quotient Measurements
- 124 Resting metabolic rate measurements (RMR) and respiratory quotient (RQ) measurements were collected using the PARVO
- 125 Medics TrueOne 2400 Metabolic Cart (PARVO Medics, Salt Lake City, UT, USA) using the manufacturer's instructions. Briefly,
- fasted subjects rest for 10 minutes prior to start of experiment. Canopy is placed over participant's head, and dilution pump
- flow rate is adjusted so that CO2 dilution is between 1-2%. Measurements are recorded for 30 minutes. The first 5 minutes
- of measurements were omitted. Once steady state was achieved (coefficient of variance <10% for VO₂ and VCO₂), 5 minutes
- of data was collected and averaged to produce RQ and RMR values.
- 130 Dual-Energy X-Ray Absorptiometry (DXA) Analysis
- DXA measures were collected using an adaptation from the protocol described by Ng at al. 9. In the current study, two whole-
- body DXA scans were performed with repositioning using a Hologic Horizon/A system (Hologic Inc., Marlborough, MA, USA)
- and the results averaged. Participants were scanned according to the manufacturer's guidelines. All DXA scans were analyzed
- at UHCC by a single certified technologist using Hologic Apex 5.5 software. Lean mass was calculated by subtracting bone
- mineral content (BMC) from fat-free mass (FFM). Appendicular lean mass was calculated by adding the lean mass of both
- arms and legs. Trunk lean mass was calculated by subtracting the BMC of the spine, pelvis, and ribs from trunk FFM.
- 137 Manual Anthropometrics
- 138 Anthropometric measures of waist circumference (WC) and hip circumference (HC) were collected using a flexible measuring
- 139 tape according to the standard protocol from National Health and Nutrition Examination Survey (NHANES) (Centers for
- Disease Control and Prevention. National Health and Nutrition Examination Survey (NHANES): Anthropometry Procedures
- 141 Manual, 2007. Version current 30 October 2018. Internet:
- 142 https://wwwn.cdc.gov/nchs/nhanes/continuousnhanes/manuals.aspx?BeginYear=2017 (accessed 18 August 2019).).

- 143 Measurements were recorded in triplicate to the nearest 0.1 cm and results averaged. If a measurement differed by greater
- than 1 cm, a fourth measurement was taken and the closest three measurements averaged.
- 145 Muscle Function Testing
- 146 Muscle function testing was adapted from the protocol described by Ng et al (22). Isokinetic and isometric right leg strength
- 147 were measured using a Biodex System 4 (Biodex Medical Systems Inc) dynamometer. For isometric measurements, the
- dynamometer was fixed at 60° from full extension. For the isokinetic measurement, resistance was set at 60°/s. Peak torque
- was recorded as the maximum torque achieved during the repetitions. Hand grip strength for the right and left arms was
- measured with a handgrip dynamometer (JAMAR 5030J1). Participants positioned their elbow at a 90° angle and were asked
- to squeeze the dynamometer as hard as they could. The strength of each hand was measured in kilograms, and the average
- of the 3 measurements was recorded.
- 153 Oura Ring Analysis
- Only participants who used an iPhone were eligible to receive an Oura ring (Oura, Oulu, Finland). Participants were fitted
- with an Oura ring to wear on any finger. Participants were instructed to wear the ring during day and night and remove the
- ring only for charging and activities that would require removal of the ring.
- 157 Statistical Analysis
- 158 Secondary outcomes included differences in weight loss, body fat, lean mass, fasting glucose, insulin, HbA1c levels, RMR, and
- 159 TEE, assessed at baseline and 12-weeks in the in-person cohort. To estimate the intention to treat effect of treatment
- assignment on changes in these outcomes, we used LMMs with fixed effects for treatment assignment, an indicator for the
- 161 12-week visit, and their interaction, and a random effect for participant. The treatment effect was estimated by the
- interaction. In sensitivity analyses, we repeated these analyses Winsorizing any outliers, defined as in the primary analysis.
- 163 P-values and confidence intervals were Bonferroni-corrected for 8 comparisons.
- 164 All other outcomes measured at the baseline and 12-week clinical visits were considered exploratory and analyzed using the
- methods described for the secondary outcomes, without penalization for multiple comparisons. Data are presented as mean
- 166 (95% confidence intervals) unless otherwise noted.

168 Supplemental References

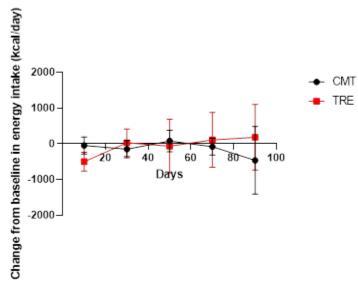
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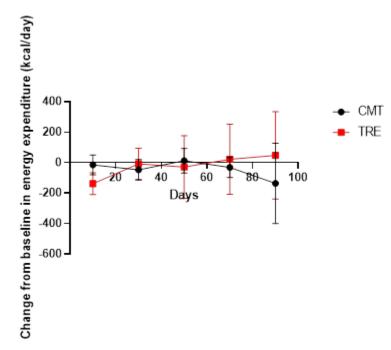
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195 B.

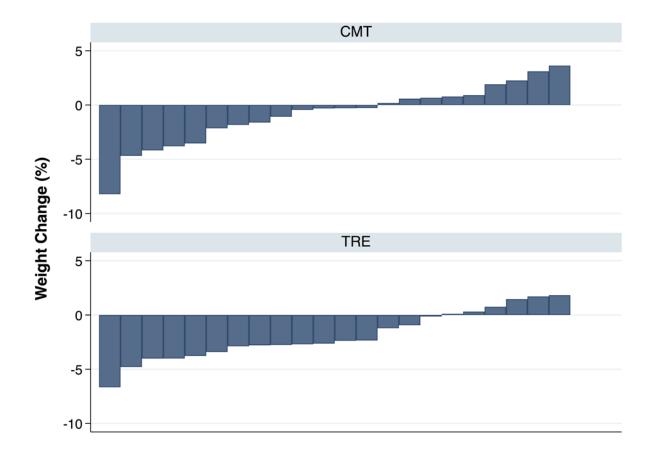


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Estimated changes from baseline in energy intake (A) and energy expenditure (B).

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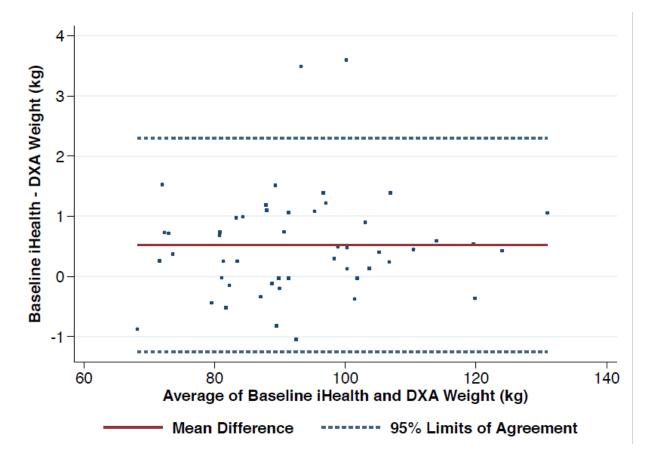
Waterfall plot showing percent weight change for each participant from the in-person cohort in the CMT group (top) and

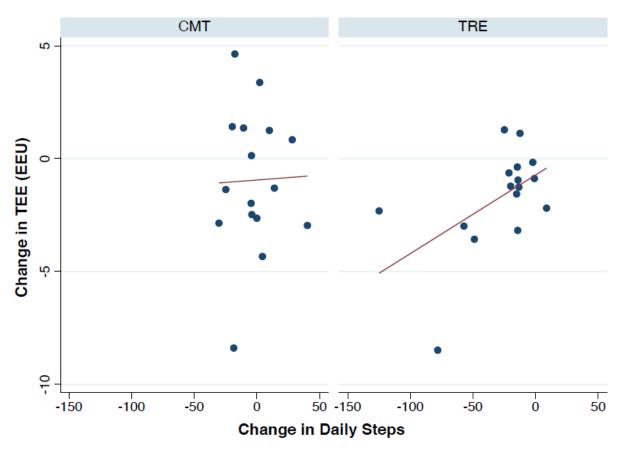
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TRE group (bottom).

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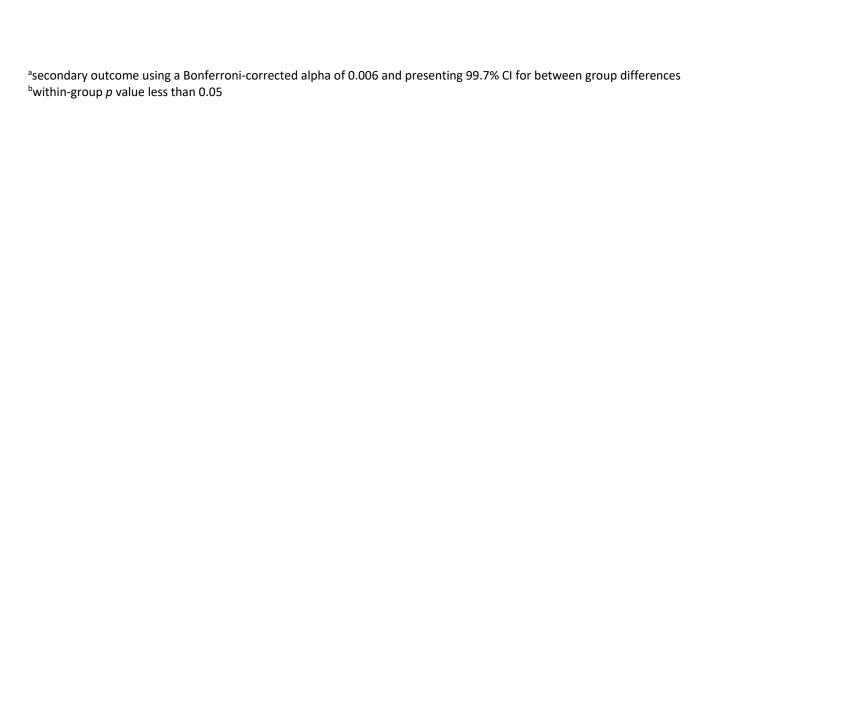


The correlation of change in step count versus change in TEE was stronger in the TRE group (0.52) than the CMT group (0.03); however, the equality of correlations was not significant (p=0.48).

eTable 1. Insulin and glucose homeostasis and cardiometabolic health measurements in in-person subjects.

	CMT Pre	CMT Post	ΔCMT	Δ CMT p	TRE Pre	TRE Post	ΔTRE	Δ TRE p	Difference	p value
	(n=25)	(n=24)		value	(n=25)	(n=22)		value	between groups	
Glucose (mg/dL) ^a	93.9	94.2	0.29 (-	0.83	91.7	90.6	-1.06 (-	0.46	-1.35 (-5.25, 2.54)	0.50
	(90.3,	(90.5,	2.41,		(88.1,	(86.9,	3.87,			
	97.5)	97.8)	3.00)		95.3)	94.3)	1.75)			
Insulin (mU/L) ^a	14.7	14.8	0.19 (-	0.83	12.4 (9.0,	11.9 (8.5,	-0.50 (-	0.60	-0.69 (-3.25, 1.86)	0.60
	(11.3,	(11.5,	1.58,		15.7)	15.3)	2.34,			
	18.0)	18.2)	1.96)				1.35)			
HbA1C (%) ^a	5.30	5.29	-0.006 (-	0.81	5.28	5.25	-0.024 (-	0.37	-0.018 (-0.120,	0.63
	(5.16,	(5.16,	0.057,		(5.14,	(5.12,	0.077,		0.084)	
	5.44)	5.43)	0.044)		5.41)	5.39)	0.029)			
HOMA-IR	3.41	3.50	0.085 (-	0.69	2.81	2.65	-0.160 (-	0.47	-0.245 (-0.841,	0.42
	(2.62,	(2.70,	0.328,		(2.02,	(1.85,	0.590,		0.351)	
	4.21)	4.30)	0.498)		3.61)	3.46)	0.270)			
Systolic Blood Pressure	122.6	118.7	-3.86 (-	0.042 b	119.8	118.1	-1.69 (-	0.39	2.17 (-3.18, 7.52)	0.43
(mmHg)	(119.0,	(115.1,	7.58, -		(116.2,	(114.3,	5.54,			
	126.2)	122.4)	0.14)		123.5)	122.0)	2.15)			
Diastolic Blood Pressure	74.6	71.6	-3.01 (-	0.13	76.9	72.8	-4.08 (-	0.047 ^b	-1.08 (-6.67, 4.52)	0.71
(mmHg)	(70.9,	(67.8,	6.90,		(73.2,	(68.9,	8.11, -			
	78.4)	75.4)	0.89)		80.7)	76.8)	0.06)			
Total Cholesterol	202.5	203.5	0.97 (-	0.84	203.7	200.1	-3.56 (-	0.48	-4.53 (-18.34,	0.52
(mg/dL)	(187.9,	(188.7,	8.60,		(189.1,	(185.1,	13.52,		9.29)	
	217.1)	218.2)	10.55)		218.3)	215.1)	6.40)			
HDL (mg/dL)	50.1	50.7	0.61 (-	0.61	54.7	54.0	-0.72 (-	0.56	-1.33 (-4.70, 2.04)	0.44
	(44.8,	(45.4,	1.72,		(49.4,	(48.6,	3.16,			
	55.5)	56.1)	2.94)		60.1)	59.4)	1.71)			
LDL (mg/dL)	126.4	124.2	-2.24 (-	0.58	122.1	122.7	0.60 (-	0.88	2.84 (-8.45, 14.13)	0.62
	(114.9,	(112.6,	10.14,		(110.7,	(111.0,	7.46,			
	138.0)	135.7)	5.66)		133.6)	134.5)	8.66)			
Triglycerides (mg/dL)	133.4	136.0	2.67 (-	0.75	127.2	116.9	-10.27 (-	0.24	-12.94 (-36.81,	0.29
	(108.3,	(110.8,	13.88,		(102.1,	(91.2,	27.48,		10.93)	
	158.4)	161.3)	19.21)		152.2)	142.6)	6.94)			

All data are presented as means (95% confidence interval). For secondary outcome measures, Bonferroni-corrected confidence intervals are presented and Bonferroni-adjusted critical alpha of 0.006 is used. For data with statistical outliers, winsorised data was used to generate *p* value. HbA1C, hemoglobin A1C; HOMA-IR, homeostatic model assessment of insulin resistance HDL, high-density lipoprotein; LDL, low-density lipoprotein.



eTable 2. All body composition and strength measures.

·	CMT Pre (n=25)	CMT Post (n=24)	ΔCMT	ΔCMT <i>p</i> value	TRE Pre (n=25)	TRE Post (n=22)	ΔΤRΕ	ΔTRE <i>p</i> value	Difference between groups	p value
DXA Analysis	, ,	, ,			, ,	,			<u> </u>	
Android Fat (g)	2890.0	2908.1	18.13 (-	0.70	2731.6	2650.3	-81.40 (-	0.10	-99.52 (-235.02,	0.15
	(2541.1,	(2558.7,	75.61,		(2382.7,	(2299.7,	179.24,		35.97)	
	3238.9)	3257.6)	111.87)		3080.6)	3000.8)	16.44)			
Android Lean (g)	4885.0	4825.4	-59.60 (-	0.24	4819.2	4717.1	-102.02 (-	0.052	-42.43 (-185.06,	0.56
	(4498.7,	(4438.6,	158.27,		(4432.9,	(4329.2,	205.02,		100.21)	
	5271.3)	5212.2)	39.07)		5205.5)	5105.1)	0.97)			
Android Mass (g)	7784.7	7750.4	-34.35 (-	0.66	7542.0	7384.8	-157.17 (-	0.052	-122.81 (-341.88,	0.27
	(7137.1,	(7102.0,	185.89,		(6894.3,	(6734.9,	315.36,		96.25)	
	8432.4)	8398.7)	117.18)		8189.6)	8034.8)	1.03)		,	
Android Percent	37.0	37.1	0.14 (-	0.71	35.7 (33.1,	35.4	-0.27 (-	0.49	-0.41 (-1.47,	0.45
Fat (%)	(34.4,	(34.6,	0.60,		38.2)	(32.8,	1.04, 0.50)		0.66)	
	39.5)	39.6)	0.87)			37.9)				
Gynoid Fat (g)	4933.5	4887.8	-45.62 (-	0.40	4749.3	4602.2	-147.06 (-	0.009**	-101.44 (-254.14,	0.19
,,	(4468.7,	(4422.6,	151.24,		(4284.5,	(4135.9,	257.33, -		51.25)	
	5398.2)	5353.1)	60.01)		5214.1)	5068.6)	36.79)			
Gynoid Lean (g)	10000.1	10032.4	32.30 (-	0.63	10046.1	9707.5	-338.65 (-	<0.001***	* -101.44 (-254.14, 51.25) *** -370.95 (-560.18, -181.72)	<0.001#
,	(9286.4,	(9318.2,	98.59,		(9332.4,	(8992.2,	475.31, -			
	10713.8)	10746.6)	163.18)		10759.8)	10422.7)	201.99)			
Gynoid Mass (g)	14940.8	14929.2	-11.56 (-	0.90	14801.1	14308.4	-492.70 (-	<0.001***	-481.14 (-744.04,	<0.001#
	(14124.2,	(14111.9,	193.42,		(13984.6,	(13489.2,	682.55, -		-218.24)	
	15757.4)	15746.6)	170.30)		15617.7)	15127.6)	302.84)		,	
Gynoid Percent	33.0	32.7	-0.32 (-	0.24	32.4 (29.6,	32.5	0.06 (-0.49,	0.82	0.38 (-0.38, 1.14)	0.33
Fat (g)	(30.2,	(29.9,	0.84,		35.2)	(29.7,	0.61)		, , ,	
	35.8)	35.5)	0.21)			35.3)				
Visceral Fat	1590.5	1593.9	3.42 (-	0.89	1484.1	1456.1	-27.98 (-	0.29	-31.39 (-102.95,	0.39
Body Fat (g)	(1402.7,	(1405.8,	46.09,		(1296.3,	(1267.5,	79.64,		40.16)	
	1778.4)	1782.0)	52.92)		1672.0)	1644.8)	23.69)			
Visceral Fat	2450.1	2397.4	-52.76 (-	0.007**	2451.6	2399.5	-52.08 (-	0.011*	0.68 (-54.97,	0.98
Body Lean (g)	(2280.6,	(2227.7,	91.26, -		(2282.1,	(2229.5,	92.27, -		56.34)	
	2619.6)	2567.0)	14.26)		2621.1)	2569.5)	11.89)			
Visceral Fat	4042.2	3992.3	-49.81 (-	0.14	3929.1	3858.5	-70.62 (-	0.046*	-20.81 (-117.01,	0.67
Body Mass (g)	(3730.3,	(3680.2,	116.36,		(3617.3,	(3545.8,	140.09, -		75.40)	
	4354.0)	4304.4)	16.74)		4240.9)	4171.2)	1.14)			

Visceral Fat	39.0	39.2	0.21 (-	0.59	37.1 (34.7,	36.9	-0.21 (-	0.62	-0.42 (-1.54,	0.46
Body Percent Fat	(36.5,	(36.7,	0.56,		39.6)	(34.5,	1.02, 0.60)		0.70)	
(%)	41.4)	41.6)	0.99)		,	39.4)	, ,		,	
Visceral Fat	1215.6	1218.9	3.34 (-	0.86	1141.7	1124.0	-17.70 (-	0.38	-21.04 (-75.87,	0.45
Outerwall Fat (g)	(1075.4,	(1078.5,	34.59,		(1001.5,	(983.1,	57.29,		33.80)	
	1355.9)	1359.4)	41.27)		1282.0)	1264.9)	21.90)			
Visceral Fat	2268.6	2222.8	-45.81 (-	0.013*	2283.5	2234.5	-48.91 (-	0.011*	-3.10 (-55.49,	0.91
Outerwall Lean	(2107.7,	(2061.8,	82.05, -		(2122.6,	(2073.2,	86.74, -		49.28)	
(g)	2429.4)	2383.7)	9.57)		2444.3)	2395.9)	11.08)			
Visceral Fat	3491.3	3452.5	-38.84 (-	0.15	3423.6	3363.3	-60.34 (-	0.033*	-21.50 (-98.39,	0.58
Outerwall Mass	(3221.5,	(3182.4,	92.03,		(3153.8,	(3092.8,	115.87, -		55.40)	
(g)	3761.2)	3722.5)	14.35)		3693.5)	3633.8)	4.81)			
Visceral Fat	34.6	34.9	0.27 (-	0.48	32.9 (30.7,	32.8	-0.15 (-	0.72	-0.42 (-1.51,	0.45
Outerwall	(32.4,	(32.7,	0.48,		35.1)	(30.5,	0.93, 0.64)		0.67)	
Percent Fat (%)	36.9)	37.2)	1.03)			35.0)				
Visceral Fat	1015.3	1015.5	0.20 (-	0.99	943.6	933.6	-10.00 (-	0.60	-10.20 (-61.69,	0.70
Cavity Fat (g)	(885.1,	(885.2,	35.42,		(813.5,	(802.9,	47.18,		41.30)	
	1145.4)	1145.8)	35.82)		1073.8)	1064.4)	27.18)			
Visceral Fat	2037.0	1993.1	-43.88 (-	0.034*	2056.4	2010.3	-46.15 (-	0.033*	-2.28 (-61.03,	0.94
Cavity Lean (g)	(1885.8,	(1841.8,	84.52, -		(1905.2,	(1858.4,	88.58, -		56.48)	
	2188.2)	2144.5)	3.23)		2207.6)	2162.1)	3.73)			
Visceral Fat	3053.8	3000.0	-53.76 (-	0.06	2999.2	2943.4	-55.83 (-	0.06	-2.07 (-84.01,	0.96
Cavity Mass (g)	(2804.7,	(2750.6,	110.44,		(2750.1,	(2693.5,	115.00,		79.87)	
	3302.9)	3249.4)	2.93)		3248.3)	3193.3)	3.35)			
Visceral Fat	32.9	33.0	0.19 (-	0.63	30.9 (28.5,	30.8	-0.05 (-	0.90	-0.25 (-1.38,	0.67
Cavity Percent	(30.5,	(30.7,	0.59,		33.2)	(28.5,	0.87, 0.77)		0.89)	
Fat (%)	35.2)	35.4)	0.98)			33.2)				
Visceral Fat Area	129.6	131.4	1.83 (-	0.53	120.1	119.5	-0.53 (-	0.86	-2.36 (-10.64,	0.58
(cm²)	(109.6,	(111.4,	3.89,		(100.1,	(99.5,	6.51, 5.45)		5.91)	
	149.5)	151.4)	7.56)		140.0)	139.6)				
Visceral Fat	624.8	633.6	8.84 (-	0.53	578.9	576.3	-2.55 (-	0.86	-11.39 (-51.30,	0.58
Mass (g)	(528.6,	(537.3,	18.77,		(482.7,	(479.7,	31.37,		28.52)	
	720.9)	729.9)	36.45)		675.0)	673.0)	26.26)			
Visceral Fat	675.4	685.0	9.55 (-	0.53	625.8	623.1	-2.76 (-	0.86	-12.31 (-55.46,	0.58
Volume (cm³)	(571.5,	(580.9,	20.30,		(521.9,	(518.6,	33.91,		30.83)	
	779.4)	789.1)	39.40)		729.8)	727.5)	28.39)			

TAT Area (cm²)	534.9	534.1	-0.81 (-	0.91	508.9	500.5	-8.38 (-	0.25	-7.57 (-27.27,	0.45
-	(477.0,	(476.1,	14.44,		(451.0,	(442.4,	22.61,		12.12)	
	592.9)	592.1)	12.81)		566.8)	558.7)	5.84)			
ΓΑΤ Mass (g)	2579.1	2575.2	-3.92 (-	0.91	2453.6	2413.2	-40.43 (-	0.25	-36.51 (-131.46,	0.45
	(2299.8,	(2295.6,	69.60,		(2174.3,	(2132.9,	108.99,		58.44)	
	2858.4)	2854.8)	61.77)		2732.9)	2693.5)	28.14)			
TAT Volume	2788.2	2784.0	-4.23 (-	0.91	2652.6	2608.9	-43.70 (-	0.25	-39.47 (-142.12,	0.45
(cm³)	(2486.3,	(2481.7,	75.24,		(2350.6,	(2305.8,	117.83,		63.18)	
	3090.1)	3086.2)	66.77)		2954.5)	2911.9)	30.42)			
Sat Area (cm²)	405.4	402.7	-2.69 (-	0.63	388.8	380.9	-7.94 (-	0.17	-5.25 (-21.03,	0.51
	(360.1,	(357.4,	13.60,		(343.6,	(335.5,	19.34,		10.52)	
	450.6)	447.9)	8.22)		434.1)	426.3)	3.45)			
Subcutaneous	1954.3	1941.4	-12.97 (-	0.63	1874.7	1836.4	-38.30 (-	0.17	-25.34 (-101.40,	0.51
Fat Mass (g)	(1736.4,	(1723.1,	65.59,		(1656.8,	(1617.6,	93.23,		50.73)	
	2172.3)	2159.6)	39.65)		2092.7)	2055.2)	16.62)			
Sat Volume	2112.8	2098.8	-14.02 (-	0.63	2026.7	1985.3	-41.41 (-	0.17	-27.39 (-109.62,	0.51
(cm³)	(1877.1,	(1862.9,	70.91,		(1791.1,	(1748.8,	100.79,		54.84)	
	2348.4)	2334.7)	42.87)		2262.4)	2221.9)	17.97)			
Waist	110.7	110.2	-0.55 (-	0.31	109.7	108.7	-1.04 (-	0.07	-0.49 (-2.03,	0.53
Circumference	(106.7,	(106.1,	1.62,		(105.6,	(104.6,	2.15, 0.07)		1.05)	
(cm)	114.8)	114.2)	0.51)		113.7)	112.7)				
Subcu Fat	224.0	222.6	-1.46 (-	0.77	208.8	204.6	-4.19 (-	0.42	-2.74 (-16.86,	0.70
Correction	(190.2,	(188.7,	11.23,		(175.0,	(170.6,	14.39,		11.39)	
	257.8)	256.4)	8.32)		242.6)	238.6)	6.01)			
Body Width	178.6	178.1	-0.50 (-	0.60	175.0	174.9	-0.17 (-	0.87	0.34 (-2.39, 3.06)	0.81
	(172.6,	(172.0,	2.39,		(169.0,	(168.8,	2.14, 1.80)			
	184.6)	184.1)	1.38)		181.0)	180.9)				
Outer Wall	131.1	131.8	0.72 (-	0.17	130.8	130.6	-0.18 (-	0.74	-0.90 (-2.38,	0.23
Width	(126.8,	(127.5,	0.30,		(126.5,	(126.3,	1.25, 0.89)		0.58)	
	135.4)	136.1)	1.74)		135.1)	134.9)				
Cavity Width	110.5	110.7	0.27 (-	0.76	110.3	110.3	0.03 (-1.76,	0.98	-0.24 (-2.71,	0.85
	(105.7,	(105.9,	1.44,		(105.5,	(105.5,	1.81)		2.23)	
	115.3)	115.6)	1.98)		115.1)	115.1)				
Total Percent Fat	33.0	32.9	-0.07 (-	0.78	32.9 (30.3,	32.8	-0.09 (-	0.74	-0.02 (-0.72,	0.96
	(30.4,	(30.3,	0.55,		35.6)	(30.2,	0.59, 0.42)		0.68)	
	35.7)	35.6)	0.42)			35.5)				

Body Mass Index	31.3	31.1	-0.18 (-	0.20	31.4 (30.0,	30.9	-0.52 (-	<0.001***	-0.33 (-0.74,	0.11
	(29.8,	(29.7,	0.46,		32.9)	(29.4,	0.81, -0.22)		0.07)	
	32.7)	32.6)	0.10)			32.3)				
Android Gynoid	1.14	1.15	0.016	0.047*	1.12 (1.06,	1.11	-0.010 (-	0.23	-0.027 (-0.050, -	0.025#
Ratio	(1.07,	(1.09,	(0.000,		1.19)	(1.05,	0.027,		0.003)	
	1.20)	1.22)	0.032)			1.18)	0.006)			
Android Percent	37.0	37.1	0.14 (-	0.71	35.7 (33.1,	35.4	-0.27 (-	0.49	-0.41 (-1.47,	0.45
Fat	(34.4,	(34.6,	0.60,		38.2)	(32.8,	1.04, 0.50)		0.66)	
	39.5)	39.6)	0.87)			37.9)				
Gynoid Percent	33.0	32.7	-0.32 (-	0.24	32.4 (29.6,	32.5	0.06 (-0.49,	0.82	0.38 (-0.38, 1.14)	0.33
Fat	(30.2,	(29.9,	0.84,		35.2)	(29.7,	0.61)			
	35.8)	35.5)	0.21)			35.3)				
Fat Mass Ratio	0.992	1.001	0.0087 (-	0.15	1.012	1.000	-0.0120 (-	0.06	-0.0207 (-0.0378,	0.018#
	(0.939,	(0.947,	0.0031,		(0.959,	(0.947,	0.0243,		-0.0036)	
	1.046)	1.054)	0.0205)		1.066)	1.054)	0.0004)			
Trunk Limb Fat	1.13	1.14	0.011 (-	0.23	1.14 (1.05,	1.13	-0.009 (-	0.37	-0.020 (-0.047,	0.14
Mass Ratio	(1.05,	(1.06,	0.007,		1.22)	(1.04,	0.028,		0.006)	
	1.21)	1.23)	0.030)			1.21)	0.010)			
Fat Mass Height	10.4 (9.3,	10.4 (9.2,	-0.03 (-	0.79	10.5 (9.3,	10.3 (9.2,	-0.18 (-	0.11	-0.15 (-0.46,	0.34
Squared (kg/m²)	11.6)	11.6)	0.24,		11.6)	11.5)	0.40, 0.04)		0.16)	
			0.18)							
Total Fat Mass	30671.7	30643.6	-28.10 (-	0.93	30336.3	29829.5	-506.89 (-	0.13	-478.80 (-	0.30
(g)	(27676.2,	(27645.5,	658.75,		(27340.9,	(26825.4,	1165.31,		1390.52, 432.92)	
	33667.2)	33641.7)	602.55)		33331.8)	32833.5)	151.52)			
Lean Mass	20.9	20.7	-0.11 (-	0.22	21.1 (20.1,	20.7	-0.40 (-	<0.001***	-0.28 (-0.55, -	0.036#
Height Squared	(19.8,	(19.7,	0.30,		22.2)	(19.7,	0.59, -0.21)		0.02)	
(kg/m²)	21.9)	21.8)	0.07)			21.8)				
Appendicular	9.07	9.02	-0.057 (-	0.15	9.26 (8.72,	9.04	-0.218 (-	<0.001***	-0.161 (-0.274, -	0.005##
Lean Mass Index	(8.53,	(8.48,	0.135,		9.79)	(8.50,	0.299, -		0.048)	
(kg/m²)	9.61)	9.55)	0.021)			9.58)	0.137)			
Total Lean Mass	62232.5	61887.3	-345.24	0.26	62539.2	61447.8	-1091.44 (-	<0.001***	-746.20 (-	0.09#
(g)	(57729.5,	(57382.7,	(-943.82,		(58036.2,	(56939.6,	1716.53, -		1611.67, 119.26)	
	66735.5)	66391.9)	253.34)		67042.2)	65956.0)	466.35)			
Pure Lean	20.0	19.9	-0.12 (-	0.22	20.3 (19.3,	19.9	-0.40 (-	<0.001***	-0.29 (-0.55, -	0.035#
Height Squared	(19.0,	(18.9,	0.30,		21.3)	(18.9,	0.59, -0.21)		0.02)	
(kg/m²)	21.0)	20.9)	0.07)			20.9)				

Appendicular	8.62	8.56	-0.058 (-	0.14	8.80 (8.28,	8.58	-0.220 (-	<0.001***	-0.162 (-0.274, -	0.005#
Pure Lean Mass	(8.10,	(8.04,	0.136,		9.32)	(8.06,	0.301, -		0.050)	
Index (kg/m²)	9.14)	9.08)	0.020)			9.10)	0.139)			
Pure Lean Mass	59694.0	59344.1	-349.98	0.25	60027.9	58924.3	-1103.65 (-	<0.001***	-753.67 (-	0.09
(kg/m²)	(55302.7,	(54951.1,	(-948.39,		(55636.6,	(54527.6,	1728.55, -		1618.88, 111.55)	
	64085.4)	63737.0)	248.43)		64419.3)	63320.9)	478.74)			
Scan Analysis	31.3	31.1	-0.18 (-	0.20	31.4 (30.0,	30.9	-0.52 (-	<0.001***	-0.33 (-0.74,	0.11
ВМІ	(29.8,	(29.7,	0.46,		32.9)	(29.4,	0.81, -0.22)		0.07)	
	32.7)	32.6)	0.10)			32.3)				
Whole Body	2240.4	2246.1	5.68 (-	0.28	2227.8	2229.8	2.08 (-8.62,	0.70	-3.60 (-18.42,	0.63
Total Area (cm²)	(2153.7,	(2159.4,	4.56,		(2141.0,	(2143.0,	12.78)		11.21)	
•	2327.1)	2332.9)	15.93)		2314.5)	2316.6)				1
Bone Mineral	2541.9	2546.9	5.00 (-	0.46	2511.3	2523.2	11.95 (-	0.09	6.95 (-12.32,	0.48
Content (g)	(2388.3,	(2393.3,	8.33,		(2357.7,	(2369.6,	1.97,		26.23)	
	2695.5)	2700.5)	18.33)		2664.9)	2676.9)	25.87)			
Whole Body	1.13	1.13	-0.001 (-	0.83	1.12 (1.09,	1.13	0.004 (-	0.10	0.005 (-0.002,	0.18
Total BMD	(1.10,	(1.10,	0.005,		1.16)	(1.09,	0.001,		0.011)	
(g/cm²)	1.16)	1.16)	0.004)		,	1.16)	0.009)		,	
Subtot Area	2006.6	2012.7	6.05 (-	0.25	1995.7	1995.2	-0.53 (-	0.92	-6.58 (-21.42,	0.38
(cm²)	(1923.0,	(1929.1,	4.22,		(1912.2,	(1911.6,	11.25,		8.26)	
	2090.2)	2096.3)	16.31)		2079.3)	2078.9)	10.18)			
Subtot BMC (g)	2024.0	2030.5	6.56 (-	0.26	2007.0	2014.7	7.66 (-4.22,	0.21	1.10 (-15.34,	0.90
,	(1883.0,	(1889.6,	4.82,		(1866.1,	(1873.7,	19.54)		17.55)	
	2164.9)	2171.4)	17.93)		2147.9)	2155.7)	,			
Subtot BMD	1.00	1.00	0.000 (-	0.88	1.00 (0.97,	1.00	0.004 (-	0.10	0.003 (-0.003,	0.28
(g/cm²)	(0.97,	(0.97,	0.004,		1.03)	(0.97,	0.001,		0.010)	
•	1.04)	1.04)	0.005)		-	1.04)	0.008)		,	1
Head Area (cm²)	233.8	233.5	-0.34 (-	0.74	232.0	234.6	2.61 (0.50,	0.015*	2.95 (0.03, 5.88)	0.047#
• •	(226.6,	(226.2,	2.36,		(224.8,	(227.3,	4.72)			
	241.1)	240.7)	1.68)		239.3)	241.9)				
Head BMC (g)	514.5	512.4	-2.07 (-	0.42	504.2	508.5	4.27 (-0.97,	0.11	6.34 (-0.91,	0.09
	(479.1,	(477.0,	7.08,		(468.9,	(473.1,	9.51)		13.59)	1
	549.9)	547.8)	2.95)		539.6)	544.0)	, ·		, , , , , , , , , , , , , , , , , , ,	1
Head BMD	2.20	2.19	-0.008 (-	0.44	2.17 (2.05,	2.16	-0.005 (-	0.61	0.002 (-0.025,	0.86
(g/cm²)	(2.07,	(2.07,	0.027,		2.29)	(2.04,	0.025,		0.030)	
···	2.32)	2.31)	0.012)			2.29)	0.015)		,	

Left Arm Area	246.9	247.2	0.28 (-	0.83	239.6	239.5	-0.09 (-	0.95	-0.37 (-4.05,	0.84
(cm²)	(234.0,	(234.3,	2.27,		(226.7,	(226.5,	2.75, 2.56)		3.31)	
	259.9)	260.1)	2.82)		252.5)	252.5)				
Left Arm BMC	192.5	193.0	0.55 (-	0.52	183.3	183.1	-0.24 (-	0.79	-0.79 (-3.21,	0.53
(g)	(176.4,	(176.9,	1.13,		(167.2,	(166.9,	1.99, 1.51)		1.64)	
	208.6)	209.2)	2.22)		199.4)	199.2)				
Left Arm BMD	0.771	0.772	0.0009 (-	0.76	0.757	0.757	-0.0003 (-	0.92	-0.0012 (-0.0098,	0.78
(g/cm²)	(0.742,	(0.743,	0.0050,		(0.728,	(0.727,	0.0065,		0.0073)	
	0.800)	0.801)	0.0068)		0.786)	0.786)	0.0059)			
Right Arm Area	254.2	252.6	-1.63 (-	0.12	247.0	246.5	-0.45 (-	0.68	1.18 (-1.79, 4.15)	0.44
(cm²)	(241.6,	(239.9,	3.69,		(234.3,	(233.8,	2.60, 1.69)			
	266.9)	265.3)	0.42)		259.6)	259.2)				
Right Arm BMC	201.2	201.6	0.34 (-	0.58	192.4	192.2	-0.18 (-	0.78	-0.52 (-2.24,	0.55
(g)	(184.9,	(185.2,	0.85,		(176.1,	(175.9,	1.42, 1.06)		1.20)	
	217.6)	217.9)	1.53)		208.8)	208.6)				
Right Arm BMD	0.783	0.790	0.0067	0.002**	0.772	0.773	0.0007 (-	0.78	-0.0061 (-0.0123,	0.06
(g/cm²)	(0.752,	(0.759,	(0.0024,		(0.742,	(0.742,	0.0039,		0.0002)	
	0.814)	0.820)	0.0110)		0.803)	0.804)	0.0052)			
Left Rib Area	134.6	140.2	5.53	0.014*	140.8	141.5	0.76 (-3.82,	0.74	-4.77 (-11.13,	0.14
(cm²)	(128.6,	(134.1,	(1.12,		(134.8,	(135.3,	5.34)		1.59)	
	140.7)	146.3)	9.94)		146.8)	147.8)				
Left Rib BMC (g)	85.8	89.7	3.90	0.006**	90.6 (85.0,	90.5	-0.06 (-	0.97	-3.96 (-7.99,	0.054
	(80.2,	(84.1,	(1.12,		96.2)	(84.8,	2.96, 2.85)		0.06)	
	91.4)	95.4)	6.69)			96.2)				
Left Rib BMD	0.637	0.642	0.0048 (-	0.48	0.642	0.636	-0.0060 (-	0.40	-0.0107 (-0.0300,	0.27
(g/cm²)	(0.610,	(0.615,	0.0086,		(0.615,	(0.609,	0.0199,		0.0085)	
	0.664)	0.669)	0.0181)		0.669)	0.664)	0.0079)			
Right Rib Area	149.0	148.2	-0.88 (-	0.71	146.9	149.6	2.71 (-2.20,	0.28	3.59 (-3.22,	0.30
(cm²)	(141.1,	(140.1,	5.61,		(138.9,	(141.4,	7.63)		10.41)	
	157.0)	156.2)	3.84)		154.8)	157.7)				
Right Rib BMC	97.7	96.5	-1.14 (-	0.53	93.9 (87.0,	95.4	1.53 (-2.17,	0.42	2.67 (-2.46, 7.80)	0.31
(g)	(90.7,	(89.6,	4.69,		100.8)	(88.4,	5.24)			
	104.6)	103.5)	2.42)			102.5)				
Right Rib BMD	0.657	0.652	-0.0048	0.48	0.637	0.634	-0.0031 (-	0.66	0.0017 (-0.0173,	0.86
(g/cm²)	(0.631,	(0.626,	(-0.0179,		(0.611,	(0.608,	0.0168,		0.0206)	
	0.682)	0.677)	0.0084)		0.662)	0.660)	0.0106)			

Thoracic Spine	159.4	161.7	2.30 (-	0.37	159.3	157.5	-1.85 (-	0.49	-4.15 (-11.45,	0.27
Area (cm²)	(152.0,	(154.3,	2.76,		(151.9,	(149.9,	7.11, 3.41)		3.15)	
	166.8)	169.1)	7.36)		166.7)	165.0)				
Thoracic Spine	141.3	144.1	2.82 (-	0.18	142.7	143.3	0.62 (-3.69,	0.78	-2.19 (-8.16,	0.47
BMC (g)	(131.1,	(133.9,	1.32,		(132.5,	(133.0,	4.94)		3.78)	
	151.5)	154.3)	6.95)		152.9)	153.6)				
Thoracic Spine	0.885	0.891	0.0064 (-	0.42	0.890	0.905	0.0149 (-	0.07	0.0085 (-0.0138,	0.46
BMD (g/cm ²)	(0.848,	(0.854,	0.0090,		(0.853,	(0.867,	0.0012,		0.0308)	
	0.922)	0.928)	0.0218)		0.926)	0.942)	0.0310)			
Lumbar Spine	58.5	57.5	-1.06 (-	0.22	58.5 (55.8,	58.8	0.31 (-1.44,	0.73	1.37 (-1.06, 3.80)	0.27
Area (cm²)	(55.8,	(54.7,	2.74,		61.2)	(56.0,	2.06)			
	61.2)	60.2)	0.62)			61.6)				
Lumbar Spine	60.4	60.6	0.22 (-	0.85	61.8 (56.9,	63.0	1.25 (-1.19,	0.31	1.03 (-2.35, 4.42)	0.55
BMC (g)	(55.4,	(55.6,	2.12,		66.7)	(58.0,	3.70)			
	65.3)	65.5)	2.56)			68.0)				
Lumbar Spine	1.03	1.05	0.022	0.028*	1.05 (1.00,	1.06	0.010 (-	0.33	-0.012 (-0.040,	0.42
BMD (g/cm ²)	(0.97,	(1.00,	(0.002,		1.10)	(1.01,	0.010,		0.016)	
	1.08)	1.10)	0.041)			1.11)	0.030)			
Pelvic Area (cm²)	215.1	214.6	-0.47 (-	0.83	218.4	215.9	-2.51 (-	0.29	-2.04 (-8.42,	0.53
	(201.1,	(200.6,	4.89,		(204.4,	(201.8,	7.12, 2.10)		4.35)	
	229.2)	228.7)	3.95)		232.5)	230.0)				
Pelvic BMC (g)	274.1	274.0	-0.10 (-	0.98	283.8	282.1	-1.64 (-	0.62	-1.54 (-10.53,	0.74
	(249.7,	(249.5,	6.31,		(259.3,	(257.6,	8.13, 4.85)		7.45)	
	298.5)	298.5)	6.12)		308.2)	306.7)				
Pelvic BMD	1.26	1.26	0.000 (-	0.97	1.29 (1.24,	1.30	0.007 (-	0.42	0.006 (-0.017,	0.58
(g/cm²)	(1.21,	(1.21,	0.016,		1.35)	(1.25,	0.010,		0.030)	
	1.32)	1.32)	0.016)			1.35)	0.023)			
Left Leg Area	394.5	396.6	2.07 (-	0.28	393.4	393.5	0.09 (-3.87,	0.96	-1.98 (-7.46,	0.48
(cm²)	(375.0,	(377.0,	1.72,		(373.9,	(373.9,	4.05)		3.50)	
	414.0)	416.1)	5.86)		412.9)	413.0)				
Left Leg BMC (g)	486.0	485.4	-0.60 (-	0.80	477.4	480.4	3.06 (-1.70,	0.21	3.66 (-2.93,	0.28
	(448.6,	(448.0,	5.15,		(439.9,	(442.9,	7.81)		10.24)	
	523.4)	522.8)	3.95)		514.8)	517.9)				
Left Leg BMD	1.22	1.21	-0.007 (-	0.07	1.21 (1.16,	1.21	0.007 (-	0.07	0.014 (0.003,	0.011#
(g/cm²)	(1.17,	(1.16,	0.014,		1.25)	(1.17,	0.001,		0.025)	
	1.27)	1.26)	0.001)			1.26)	0.015)			

Right Leg Area	394.1	394.7	0.64 (-	0.75	391.9	391.0	-0.90 (-	0.67	-1.54 (-7.28,	0.60
(cm²)	(374.6,	(375.2,	3.33,		(372.4,	(371.5,	5.05, 3.24)		4.20)	
	413.6)	414.2)	4.61)		411.4)	410.6)				
Right Leg BMC	485.0	486.0	1.01 (-	0.70	481.2	483.6	2.37 (-3.04,	0.39	1.36 (-6.13, 8.85)	0.72
(g)	(447.9,	(448.9,	4.17,		(444.2,	(446.5,	7.78)			
	522.0)	523.1)	6.19)		518.3)	520.7)				
Right Leg BMD	1.22	1.22	0.003 (-	0.62	1.22 (1.17,	1.23	0.008 (-	0.19	0.005 (-0.012,	0.55
(g/cm²)	(1.17,	(1.17,	0.009,		1.27)	(1.18,	0.004,		0.022)	
	1.26)	1.27)	0.015)			1.28)	0.020)			
Head Fat (g)	1277.0	1265.4	-11.63 (-	0.10	1266.4	1265.7	-0.70 (-	0.92	10.93 (-9.04,	0.28
	(1215.9,	(1204.2,	25.45,		(1205.3,	(1204.4,	15.13,		30.90)	
	1338.2)	1326.6)	2.18)		1327.6)	1327.1)	13.72)			
Head Lean (g)	3960.5	3931.4	-29.16 (-	0.13	3945.4	3954.3	8.90 (-	0.66	38.05 (-16.42,	0.17
	(3783.2,	(3753.9,	66.84,		(3768.0,	(3776.4,	30.44,		92.52)	
	4137.9)	4108.9)	8.52)		4122.7)	4132.1)	48.23)			
Head Mass (g)	5237.6	5196.8	-40.78 (-	0.12	5212.1	5222.5	10.41 (-	0.70	51.20 (-23.12,	0.18
	(4999.9,	(4958.9,	92.19,		(4974.4,	(4984.1,	43.25,		125.51)	
	5475.3)	5434.7)	10.62)		5449.8)	5461.0)	64.08)			
Head Percent	24.4	24.3	-0.03 (-	0.39	24.4 (24.1,	24.4	-0.02 (-	0.52	0.01 (-0.08, 0.09)	0.90
Fat (%)	(24.1,	(24.1,	0.09,		24.6)	(24.1,	0.09, 0.04)			
	24.6)	24.6)	0.03)			24.6)				
Left Arm Fat (g)	1781.3	1769.1	-12.26 (-	0.61	1797.6	1787.3	-10.26 (-	0.68	2.01 (-66.22,	0.95
	(1585.2,	(1572.8,	59.46,		(1601.5,	(1590.5,	59.52,		70.23)	
	1977.4)	1965.4)	34.93)		1993.7)	1984.1)	39.01)			
Left Arm Lean	3555.9	3489.8	-66.09 (-	0.007**	3463.7	3386.0	-77.66 (-	0.002**	-11.57 (-81.14,	0.74
(g)	(3178.7,	(3112.5,	114.21, -		(3086.5,	(3008.4,	127.91, -		58.00)	
	3933.1)	3867.1)	17.98)		3840.9)	3763.6)	27.41)			
Left Arm Mass	5337.2	5259.8	-77.37 (-	0.046*	5192.8	5118.3	-74.45 (-	0.07	2.92 (-107.02,	0.96
(g)	(4969.4,	(4891.7,	153.42, -		(4825.0,	(4749.5,	153.85,		112.87)	
	5705.0)	5627.9)	1.32)		5560.5)	5487.1)	4.95)			
Left Arm Percent	33.7	34.0	0.23 (-	0.46	35.4 (31.6,	35.6	0.20 (-0.43,	0.53	-0.02 (-0.89,	0.96
Fat (%)	(30.0,	(30.2,	0.37,		39.1)	(31.8,	0.83)		0.84)	
	37.5)	37.7)	0.83)			39.3)				
Right Arm Fat (g)	1834.9	1830.7	-4.22 (-	0.85	1882.8	1864.7	-18.17 (-	0.43	-13.95 (-76.46,	0.66
.57	(1638.1,	(1633.7,	47.46,		(1686.0,	(1667.3,	63.31,		48.56)	
	2031.7)	2027.7)	39.02)		2079.6)	2062.1)	26.98)			

Right Arm Lean	3632.8	3616.0	-16.77 (-	0.45	3649.3	3558.7	-90.66 (-	<0.001***	-73.89 (-136.95, -	0.022#
(g)	(3246.0,	(3229.1,	60.38,		(3262.5,	(3171.5,	136.21, -		10.83)	
	4019.6)	4003.0)	26.85)		4036.2)	3945.8)	45.11)			
Right Arm Mass	5467.7	5447.6	-20.14 (-	0.55	5480.2	5374.7	-105.48 (-	0.003**	-85.34 (-181.80,	0.08
(g)	(5090.9,	(5070.6,	86.85,		(5103.4,	(4997.2,	175.14, -		11.11)	
	5844.4)	5824.5)	46.58)		5856.9)	5752.2)	35.82)			
Right Arm	34.0	34.0	-0.08 (-	0.80	35.2 (31.4,	35.4	0.29 (-0.30,	0.34	0.37 (-0.46, 1.19)	0.38
Percent Fat (%)	(30.3,	(30.3,	0.65,		38.9)	(31.7,	0.89)			
	37.7)	37.7)	0.49)			39.2)				
Trunk Fat (g)	15490.8	15591.7	100.91 (-	0.61	15312.0	15018.9	-293.02 (-	0.15	-393.93 (-948.86,	0.16
	(13776.9,	(13876.1,	282.95,		(13598.1,	(13299.6,	693.76,		160.99)	
	17204.6)	17307.2)	484.78)		17025.8)	16738.3)	107.72)			
Trunk Lean (g)	31137.2	30992.8	-144.36	0.47	31110.1	30641.1	-469.07 (-	0.025*	-324.71 (-893.59,	0.26
	(28948.4,	(28802.6,	(-537.84,		(28921.3,	(28447.7,	879.92, -		244.17)	
	33326.0)	33183.0)	249.13)		33298.9)	32834.5)	58.21)			
Trunk Mass (g)	46627.9	46587.2	-40.70 (-	0.88	46452.1	45658.3	-793.73 (-	0.006**	-753.03 (-	0.06
	(43496.2,	(43453.6,	585.80,		(43320.3,	(42520.4,	1362.90, -		1541.11, 35.06)	
	49759.7)	49720.9)	504.39)		49583.8)	48796.2)	224.56)			
Trunk Percent	33.1	33.1	0.00 (-	0.99	32.9 (30.4,	32.7	-0.25 (-	0.43	-0.26 (-1.12,	0.56
Fat (%)	(30.5,	(30.5,	0.60,		35.5)	(30.1,	0.88, 0.37)		0.61)	
	35.7)	35.7)	0.60)			35.3)				
Left Leg Fat (g)	5061.1	4991.9	-69.16 (-	0.20	4930.7	4862.3	-68.43 (-	0.22	0.73 (-150.80,	0.99
	(4506.4,	(4436.9,	173.97,		(4376.1,	(4306.4,	177.86,		152.26)	
	5615.7)	5547.0)	35.65)		5485.4)	5418.3)	41.01)			
Left Leg Lean (g)	9933.3	9872.8	-60.52 (-	0.27	10093.0	9865.5	-227.60 (-	<0.001***	-167.08 (-321.13,	0.034#
	(9162.2,	(9101.4,	167.07,		(9322.0,	(9093.4,	338.86, -		-13.02)	
	10704.4)	10644.2)	46.03)		10864.1)	10637.5)	116.33)			
Left Leg Mass (g)	15016.4	14905.7	-110.65	0.13	15023.8	14727.4	-296.39 (-	<0.001***	-185.74 (-393.19,	0.08
	(14124.6,	(14013.5,	(-254.14,		(14132.0,	(13834.1,	446.22, -		21.71)	
	15908.2)	15798.0)	32.83)		15915.6)	15620.7)	146.57)			
Left Leg Percent	33.8	33.5	-0.24 (-	0.39	33.2 (29.9,	33.3	0.10 (-0.47,	0.73	0.34 (-0.44, 1.13)	0.39
Fat (%)	(30.5,	(30.3,	0.78,		36.5)	(30.0,	0.67)			
	37.0)	36.8)	0.30)			36.6)				
Right Leg Fat (g)	5196.7	5135.0	-61.66 (-	0.26	5056.7	4954.3	-102.37 (-	0.07	-40.71 (-194.48,	0.60
	(4633.1,	(4571.0,	168.03,		(4493.1,	(4389.4,	213.43,		113.06)	
	5760.3)	5699.1)	44.70)		5620.3)	5519.2)	8.68)			

Right Leg Lean	10012.8	9985.5	-27.35 (-	0.62	10272.4	10034.1	-238.22 (-	<0.001***	-210.87 (-365.05,	0.007##
(g)	(9218.9,	(9191.3,	133.99,		(9478.5,	(9239.3,	349.58, -		-56.69)	
	10806.7)	10779.6)	79.28)		11066.3)	10829.0)	126.87)			
Right Leg Mass	15217.4	15140.0	-77.45 (-	0.29	15329.1	14991.5	-337.59 (-	<0.001***	-260.14 (-468.58,	0.014#
(g)	(14295.4,	(14217.5,	221.62,		(14407.0,	(14067.9,	488.14, -		-51.71)	
	16139.5)	16062.5)	66.72)		16251.1)	15915.0)	187.05)			
Right Leg	34.2	33.9	-0.29 (-	0.28	33.3 (30.1,	33.3	0.03 (-0.52,	0.91	0.32 (-0.44, 1.09)	0.41
Percent Fat (%)	(31.0,	(30.7,	0.82,		36.5)	(30.1,	0.59)			
	37.4)	37.1)	0.24)			36.6)				
Subtot Fat (g)	29394.7	29378.3	-16.42 (-	0.96	29059.9	28551.8	-508.15 (-	0.13	-491.73 (-	0.29
	(26406.9,	(26387.9,	644.01,		(26072.2,	(25555.5,	1163.36,		1399.02, 415.56)	
	32382.5)	32368.7)	611.17)		32047.7)	31548.1)	147.07)			
Subtot Lean (g)	58272.0	57956.0	-315.95	0.29	58588.6	57489.0	-1099.57 (-	<0.001***	-783.62 (-	0.07
	(53904.9,	(53587.4,	(-904.54,		(54221.5,	(53116.8,	1714.23, -		1634.64, 67.40)	
	62639.0)	62324.7)	272.64)		62955.6)	61861.2)	484.92)			
Subtot Mass (g)	87666.6	87340.7	-325.97	0.45	87583.3	85923.0	-1660.23 (-	<0.001***	-1334.27 (-	0.033#
	(82340.7,	(82012.0,	(-		(82257.3,	(80588.3,	2545.55, -		2560.08, -	
	92992.6)	92669.3)	1173.80,		92909.2)	91257.8)	774.92)		108.46)	
			521.87)							
Subtot Percent	33.5	33.4	-0.07 (-	0.78	33.4 (30.6,	33.3	-0.08 (-	0.77	0.00 (-0.74, 0.74)	0.99
Fat (%)	(30.7,	(30.6,	0.59,		36.2)	(30.5,	0.61, 0.46)			
	36.3)	36.3)	0.44)			36.2)				
Whole Body Fat	30671.7	30643.6	-28.10 (-	0.93	30336.3	29829.5	-506.89 (-	0.13	-478.80 (-	0.30
Mass (g)	(27676.2,	(27645.5,	658.75,		(27340.9,	(26825.4,	1165.31,		1390.52, 432.92)	
	33667.2)	33641.7)	602.55)		33331.8)	32833.5)	151.52)		-	
Whole Body	62232.5	61887.3	-345.24	0.26	62539.2	61447.8	-1091.44 (-	<0.001***	-746.20 (-	0.09
Lean Mass (g)	(57729.5,	(57382.7,	(-943.82,		(58036.2,	(56939.6,	1716.53, -		1611.67, 119.26)	
	66735.5)	66391.9)	253.34)		67042.2)	65956.0)	466.35)			
Whole Body	92904.2	92537.5	-366.73	0.40	92779.9	91119.9	-1659.96 (-	<0.001***	-1293.23 (-	0.042#
Total Mass (g)	(87440.5,	(87071.1,	(-		(87316.2,	(85647.4,	2558.93, -		2537.93, -48.53)	
	98367.9)	98003.9)	1227.63,		98243.6)	96592.5)	760.99)			
			494.17)							
Whole Body	33.0	32.9	-0.07 (-	0.78	32.9 (30.3,	32.8	-0.09 (-	0.74	-0.02 (-0.72,	0.96
Percent Fat (%)	(30.4,	(30.3,	0.55,		35.6)	(30.2,	0.59, 0.42)		0.68)	
• •	35.7)	35.6)	0.42)			35.5)	1			

Manual										
Anthropometric										
Manual Height (cm)	172.3 (168.9, 175.6)	172.3 (169.0, 175.7)	0.07 (- 0.04, 0.18)	0.24	171.4 (168.0, 174.7)	171.4 (168.0, 174.7)	0.01 (-0.11, 0.12)	0.90	-0.06 (-0.22, 0.10)	0.47
Weight (Kg)	93.0 (87.4, 98.5)	92.4 (86.9, 97.9)	-0.57 (- 1.40, 0.26)	0.18	92.6 (87.0, 98.1)	90.9 (85.3, 96.4)	-1.70 (- 2.56, -0.83)	<0.001***	-1.13 (-2.33, 0.07)	0.07
Manual BMI kg/m²)	31.3 (29.8, 32.7)	31.1 (29.6, 32.5)	-0.22 (- 0.50, 0.06)	0.13	31.3 (29.8, 32.7)	30.7 (29.2, 32.1)	-0.56 (- 0.86, -0.27)	<0.001***	-0.35 (-0.75, 0.06)	0.09
Waist Circumference (Cm)	106.6 (102.3, 110.8)	105.9 (101.6, 110.2)	-0.69 (- 4.28, 2.90)	0.71	106.3 (102.1, 110.5)	104.5 (100.1, 108.9)	-1.81 (- 5.53, 1.92)	0.34	-1.12 (-6.29, 4.05)	0.67
Hip Circumference (Cm)	109.5 (106.2, 112.8)	109.5 (106.2, 112.8)	0.01 (- 2.16, 2.18)	0.99	111.5 (108.2, 114.7)	110.2 (106.8, 113.6)	-1.28 (- 3.53, 0.98)	0.27	-1.29 (-4.42, 1.85)	0.42
Bicep Circumference (Cm)	35.4 (34.4, 36.4)	35.3 (34.3, 36.4)	-0.04 (- 0.46, 0.38)	0.86	35.6 (34.6, 36.6)	35.3 (34.2, 36.3)	-0.30 (- 0.74, 0.14)	0.19	-0.26 (-0.87, 0.35)	0.41
Thigh Circumference (Cm)	57.5 (55.9, 59.2)	57.8 (56.2, 59.5)	0.27 (- 0.37, 0.90)	0.41	57.7 (56.1, 59.4)	57.6 (55.9, 59.2)	-0.16 (- 0.82, 0.51)	0.64	-0.42 (-1.35, 0.50)	0.37
Waist/Hip Ratio	0.980 (0.957, 1.004)	0.970 (0.946, 0.994)	-0.0107 (-0.0287, 0.0074)	0.25	0.953 (0.929, 0.977)	0.948 (0.924, 0.973)	-0.0047 (- 0.0234, 0.0140)	0.62	0.0060 (-0.0200, 0.0320)	0.65
Waist Height Ratio	0.623 (0.596, 0.650)	0.616 (0.588, 0.643)	-0.0071 (-0.0248, 0.0107)	0.44	0.622 (0.594, 0.649)	0.612 (0.584, 0.640)	-0.0096 (- 0.0281, 0.0088)	0.31	-0.0026 (-0.0282, 0.0230)	0.84
Biodex and Grip Dynamometer										
Isometric Peak Torque Away (ft- lbs)	109.3 (97.1, 121.4)	100.9 (88.5, 113.3)	-8.39 (- 17.60, 0.81)	0.07	105.8 (93.6, 117.9)	105.9 (93.4, 118.4)	0.15 (-9.24, 9.53)	0.98	8.54 (-4.60, 21.69)	0.20

Isometric Peak	70.3	67.7	-2.53 (-	0.31	70.8 (62.3,	70.8	-0.03 (-	0.99	2.50 (-4.42, 9.43)	0.48
Torque Toward	(61.8,	(59.1,	7.38,	0.31	79.3)	(62.1,	4.98, 4.92)	0.55	2.30 (-4.42, 3.43)	0.40
•	78.7)	76.3)	2.32)		79.31	79.5)	4.30, 4.32)			
(ft-lbs)	· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·		0.00	0.224		0.04247	0.54	0.0542/0.0064	0.00
Isometric	0.259	0.218	-0.0408	0.06	0.224	0.238	0.0134 (-	0.54	0.0542 (-0.0064,	0.08
Maximum Work	(0.205,	(0.163,	(-0.0832,		(0.170,	(0.182,	0.0298,		0.1147)	
Away (ft-lbs)	0.313)	0.273)	0.0016)		0.278)	0.294)	0.0567)			
Isometric	0.090	0.102	0.0116 (-	0.31	0.099	0.092	-0.0068 (-	0.56	-0.0184 (-0.0503,	0.26
Maximum Work	(0.067,	(0.078,	0.0108,		(0.076,	(0.068,	0.0296,		0.0135)	
Toward (ft-lbs)	0.113)	0.125)	0.0339)		0.122)	0.117)	0.0160)			
Isokinetic Peak	104.6	103.7	-0.88 (-	0.87	98.9 (85.6,	90.8	-8.09 (-	0.14	-7.21 (-22.18,	0.35
Torque Away (ft-	(91.3,	(90.1,	11.25,		112.2)	(76.9,	18.88,		7.76)	
lbs)	117.9)	117.3)	9.49)			104.7)	2.70)			
Isokinetic Peak	55.9	58.2	2.29 (-	0.50	53.0 (46.1,	51.4	-1.64 (-	0.64	-3.94 (-13.46,	0.42
Torque Toward	(48.9,	(51.0,	4.31,		59.9)	(44.0,	8.50, 5.21)		5.58)	
(ft-lbs)	62.8)	65.3)	8.90)			58.7)				
Isokinetic	124.1	122.0	-2.10 (-	0.71	119.9	109.7	-10.20 (-	0.08	-8.09 (-23.83,	0.31
Maximum Work	(106.8,	(104.5,	13.00,		(102.7,	(91.9,	21.55,		7.64)	
Away (ft-lbs)	141.3)	139.5)	8.79)		137.2)	127.5)	1.16)			
Isokinetic	65.1	68.7	3.68 (-	0.47	63.4 (53.6,	59.9	-3.56 (-	0.50	-7.24 (-21.62,	0.32
Maximum Work	(55.2,	(58.6,	6.30,		73.2)	(49.4,	13.90,		7.13)	
Toward (ft-lbs)	74.9)	78.9)	13.66)			70.4)	6.78)			
Handgrip	30.8	31.1	0.31 (-	0.69	28.3 (24.3,	28.8	0.49 (-1.09,	0.54	0.18 (-2.02, 2.38)	0.87
Strength (kg)	(26.8,	(27.1,	1.21,		32.3)	(24.8,	2.08)			
	34.8)	35.1)	1.83)			32.8)				

#between group *p* value less than 0.05

##between group p value less than 0.01

###between group p value less than 0.001

^{*}within-group p value less than 0.05

^{**}within group p value less than 0.01

^{***}within group *p* value less than 0.001

eTable 3. Other blood markers in in-person cohort

	CMT Pre (n=25)	CMT Post (n=24)	ΔCMT	ΔCMT <i>p</i> value	TRE Pre (n=25)	TRE Post (n=22)	ΔTRE	ΔTRE <i>p</i> value	Difference between groups	p value
GGT (U/L)	25.9 (19.9,	23.7	-2.22 (-	0.011*	24.0 (18.0,	22.1	-1.86 (-	0.042*	0.36 (-2.12, 2.84)	0.78
,	31.9)	(17.7,	3.93, -		30.0)	(16.2,	3.65, -0.07)			
	,	29.6)	0.50)		,	28.1)	, ,			
ALT (U/L)	34.0 (27.3,	30.6	-3.38 (-	0.003**	30.5 (23.8,	28.1	-2.40 (-	0.045*	0.98 (-2.27, 4.23)	0.55
	40.6)	(23.9,	5.63, -		37.2)	(21.4,	4.75, -0.06)			
		37.3)	1.13)		,	34.8)	,			
AST (U/L)	28.1 (24.8,	26.5	-1.59 (-	0.11	26.5 (23.2,	25.7	-0.77 (-	0.46	0.82 (-2.02, 3.67)	0.57
- (-, ,	31.4)	(23.2,	3.56,		29.8)	(22.4,	2.82, 1.29)		, , , , , , ,	
	,	29.8)	0.38)		,	29.1)	, ,			
ALK (U/L)	58.3 (51.5,	56.9	-1.37 (-	0.23	57.8 (51.0,	56.7	-1.09 (-	0.36	0.28 (-2.94, 3.51)	0.86
(-, ,	65.1)	(50.1,	3.60,		64.6)	(49.9,	3.41, 1.24)		, , , , , , ,	
	,	63.7)	0.86)		,	63.6)	, ,			
AMY (U/L)	61.3 (53.3,	62.2	0.93 (-	0.68	57.2 (49.2,	57.9	0.71 (-3.82,	0.76	-0.22 (-6.50,	0.95
,	69.3)	(54.2,	3.42,		65.2)	(49.8,	5.24)		6.06)	
	,	70.3)	5.28)		,	66.1)	,		,	
LDH (U/L)	155.2	145.2	-9.92 (-	0.049*	149.8	154.3	4.45 (-5.79,	0.39	14.37 (0.14,	0.048#
	(144.3,	(134.3,	19.80, -		(139.0,	(143.0,	14.68)		28.60)	
	166.0)	156.2)	0.04)		160.7)	165.6)	·		,	
Total	0.790	0.762	-0.0284 (-	0.50	0.856	0.829	-0.0267 (-	0.54	0.0018 (-0.1176,	0.98
Bilirubin	(0.694,	(0.664,	0.1113,		(0.760,	(0.729,	0.1126,		0.1211)	
(mg/dL)	0.886)	0.859)	0.0544)		0.952)	0.929)	0.0592)		,	
BUN (mg/dL)	16.4 (15.0,	16.5	0.11 (-	0.85	14.9 (13.5,	14.8	-0.10 (-	0.87	-0.21 (-1.84,	0.80
, 0. ,	17.8)	(15.1,	1.03,		16.3)	(13.3,	1.28, 1.08)		1.43)	
		17.9)	1.24)		,	16.2)	, ,		,	
CRE (mg/dL)	0.864	0.845	-0.0195 (-	0.28	0.854	0.841	-0.0127 (-	0.50	0.0068 (-0.0442,	0.79
, ,,	(0.794,	(0.774,	0.0548,		(0.784,	(0.770,	0.0495,		0.0578)	
	0.934)	0.915)	0.0158)		0.924)	0.912)	0.0241)		,	
CPK (U/L)	140.2	145.5	5.28 (-	0.70	142.1	128.0	-14.15 (-	0.33	-19.43 (-58.68,	0.33
,	(105.3,	(110.2,	21.95,		(107.2,	(91.9,	42.42,		19.82)	
	175.1)	180.7)	32.50)		177.0)	164.0)	14.11)		, , , , , , , , , , , , , , , , , , ,	
Albumin	4.25 (4.14,	4.22	-0.033 (-	0.45	4.21 (4.10,	4.22	0.013 (-	0.78	0.046 (-0.078,	0.47
(g/dL)	4.35)	(4.11,	0.119,		4.31)	(4.11,	0.077,		0.170)	
,	,	4.32)	0.053)			4.33)	0.102)		'	

TP (g/dL)	7.00 (6.85,	6.93	-0.079 (-	0.24	6.98 (6.83,	6.98	-0.001 (-	0.99	0.077 (-0.112,	0.42
	7.16)	(6.77,	0.211,		7.14)	(6.83,	0.138,		0.267)	
		7.08)	0.053)			7.14)	0.135)			
ВНВА	0.052	0.061	0.0089 (-	0.28	0.041	0.051	0.0098 (-	0.24	0.0009 (-0.0221,	0.94
(mmol/L)	(0.039,	(0.048,	0.0072,		(0.028,	(0.037,	0.0067,		0.0240)	
	0.065)	0.075)	0.0250)		0.054)	0.065)	0.0264)			
CO ₂ (mEq/L)	24.5 (23.8,	24.3	-0.15 (-	0.64	24.6 (23.9,	24.2	-0.44 (-	0.19	-0.29 (-1.20,	0.53
	25.2)	(23.6,	0.78,		25.3)	(23.5,	1.09, 0.22)		0.62)	
		25.0)	0.48)			24.9)				
Uric Acid	5.59 (5.16,	5.99	0.401	0.01*	5.94 (5.52,	5.75	-0.194 (-	0.23	-0.595 (-1.034, -	0.008##
(mg/dL)	6.02)	(5.56,	(0.096,		6.37)	(5.31,	0.511,		0.155)	
		6.43)	0.706)			6.19)	0.123)		·	
Ca (mg/dL)	9.24 (9.12,	9.22	-0.022 (-	0.62	9.28 (9.15,	9.30	0.027 (-	0.56	0.049 (-0.076,	0.44
	9.37)	(9.10,	0.109,		9.40)	(9.17,	0.063,		0.174)	
		9.35)	0.065)			9.43)	0.118)		·	
Cl (mEq/L)	104.0	104.1	0.08 (-	0.83	103.9	104.1	0.21 (-0.52,	0.58	0.13 (-0.88, 1.14)	0.80
	(103.4,	(103.4,	0.63,		(103.3,	(103.4,	0.94)			
	104.7)	104.8)	0.78)		104.6)	104.9)				
Fe (mcg/dL)	110.5	102.1	-8.32 (-	0.22	93.4 (81.1,	93.4	-0.03 (-	1.00	8.29 (-10.62,	0.39
	(98.2,	(89.7,	21.49,		105.7)	(80.4,	13.62,		27.21)	
	122.7)	114.6)	4.84)		Í	106.3)	13.56)		·	
Hb (g/dL)	15.3 (14.6,	15.6	0.36 (-	0.34	16.0 (15.4,	15.8	-0.18 (-	0.65	-0.54 (-1.60,	0.32
	15.9)	(15.0,	0.38,		16.7)	(15.1,	0.94, 0.59)		0.53)	
		16.3)	1.10)			16.5)				
K (mEq/L)	4.12 (4.00,	4.10	-0.011 (-	0.84	4.12 (4.00,	4.17	0.050 (-	0.37	0.061 (-0.093,	0.44
	4.23)	(3.99,	0.117,		4.23)	(4.05,	0.060,		0.214)	
		4.22)	0.096)			4.29)	0.161)		·	
Mg (mg/dL)	2.09 (2.03,	2.07	-0.015 (-	0.50	2.07 (2.01,	2.06	-0.007 (-	0.77	0.008 (-0.053,	0.80
	2.15)	(2.01,	0.057,		2.13)	(2.00,	0.051,		0.069)	
		2.13)	0.028)			2.12)	0.038)		·	
Na (mEq/L)	137.5	137.8	0.24 (-	0.42	137.7	137.7	0.01 (-0.60,	0.99	-0.23 (-1.07,	0.59
	(136.9,	(137.1,	0.34,		(137.1,	(137.1,	0.61)		0.60)	
	138.1)	138.4)	0.82)		138.3)	138.3)				
Phos (mg/dL)	3.22 (3.04,	3.37	0.153 (-	0.11	3.61 (3.44,	3.61	-0.003 (-	0.98	-0.156 (-0.424,	0.25
	3.39)	(3.19,	0.034,		3.78)	(3.42,	0.196,		0.112)	
		3.54)	0.340)			3.79)	0.190)			

All data is presented as means (95% confidence interval). For data with statistical outliers, winsorised data was used to generate *p* value.

GGT, gamma-glutamyl transferase; ALT, alanine aminotransferase; AST, aspartate aminotransferase; ALK, alkaline phosphatase; AMY, amylase; LDH, lactate dehydrogenase; BUN, blood urea nitrogen; Cre, creatinine; CPK, creatine phosphokinase; TP, total protein; BHBA, beta hydroxy butyrate; CO₂, carbon dioxide; Ca, calcium; Cl, chloride; Fe, iron; Hb, hemoglobin; K, potassium; Mg, magnesium; Na, sodium; Phos, phosphate.

*within-group *p* value less than 0.05
**within group *p* value less than 0.01
#between group *p* value less than 0.05

##between group p value less than 0.01

eTable 4. MOCACARE at home blood pressure measurements in total cohort.

	CMT Pre	CMT Post	ΔCMT	ΔCMT p	TRE Pre	TRE	ΔTRE	ΔTRE p	Difference	p value
	(n=23)	(n=23)		value	(n=16)	Post (n=16)		value	between groups	
Systolic	129.7	124.3	-5.38 (-	0.005**	126.5 (120.9,	124.0	-2.51 (-	0.28	2.87 (-3.02, 8.76)	0.34
Blood	(124.9,	(119.9,	9.13, -		132.1)	(118.8,	7.04, 2.03)			
Pressure	134.4)	128.7)	1.62)			129.2)				
(mmHg)										
Diastolic	81.0 (77.9,	78.9	-2.10 (-	0.07	78.9 (75.2,	75.3	-3.55 (-	0.011*	-1.45 (-5.01, 2.10)	0.42
Blood	84.1)	(75.9,	4.36,		82.5)	(71.8,	6.28, -0.82)			
Pressure		81.8)	0.17)			78.8)				
(mmHg)										

^{*}within-group *p* value less than 0.05

^{**}within group p value less than 0.01

eTable 5. Self-reported sleep measures.

	CMT Pre	CMT Post	ΔCMT	ΔCMT	TRE Pre	TRE Post	ΔTRE	ΔTRE p	Difference	P value
				<i>p</i> value				value	between groups	
BCOL	4.62./4.02	4.26 /2.65	0.2667		4.62./4.02	4.60./2.00	0.010./	0.04	0.240 / 0.204	0.20
PSQI	4.63 (4.02,	4.26 (3.65,	-0.366 (-	0.11	4.62 (4.02,	4.60 (3.99,	-0.018 (-	0.94	0.349 (-0.281,	0.28
Score	5.24)	4.87)	0.820,		5.22)	5.20)	0.455,		0.979)	
	(n=43)	(n=43)	0.087)		(n=46)	(n=44)	0.420)			
RED	21.8 (19.6,	21.1 (18.8,	-0.68 (-	0.40	23.1 (21.0,	22.0 (19.8,	-1.11 (-	0.16	-0.43 (-2.66, 1.79)	0.70
Scale	23.9)	23.4)	2.27,		25.2)	24.3)	2.68,			
Score	(n=41)	(n=29)	0.91)		(n=44)	(n=28)	0.45)			

In scoring the PSQI, seven component scores are derived, each scored 0 (no difficulty) to 3 (severe difficulty). The component scores are summed to produce a global score (range 0 to 21). Higher scores indicate worse sleep quality.

For the RED Scale, participants read statements about food and eating. On a scale of 1- "Not at all like me" to 5- "Exactly like me", participants rated how they agreed with the statement. Score ranges from 9-45; higher scores indicate higher rewards-based eating drive.

PSQI, Pittsburg Sleep Quality Index; RED Scale, Rewards-based Eating Drive Scale.

eTable 6. Sleep and activity measures from Oura ring in in-person cohort.

	CMT Pre	CMT Post	ΔCMT	ΔCMT <i>p</i> value	TRE Pre	TRE Post	ΔTRE	ΔTRE <i>p</i> value	Difference between groups	P value
	n=17 subje	ects analyzed			n=17 subject	s analyzed		101010	постори достро	
Activity	84.0	84.1 (78.3,	0.18 (-	0.96	85.2 (81.1,	89.0	3.89 (-2.76,	0.25	3.71 (-5.84, 13.25)	0.45
Balance	(79.9,	90.0)	6.66,		89.2)	(83.4,	10.53)		, , ,	
Score	88.0)	,	7.03)		,	94.7)				
Activity Burn	401.1	380.7	-20.35 (-	0.48	394.2	289.9	-104.29 (-	<0.001***	-83.94 (-162.74, -	0.037#
•	(325.0,	(292.6,	77.45,		(318.1,	(203.9,	158.60, -		5.14)	
	477.2)	468.9)	36.75)		470.2)	375.8)	49.98)		,	
Activity	76.5	72.6 (65.8,	-3.89 (-	0.19	80.2 (74.1,	70.7	-9.44 (-	<0.001***	-5.56 (-13.68,	0.18
Score	(70.4,	79.4)	9.74,		86.3)	(64.1,	15.07, -		2.56)	
	82.6)	,	1.97)		,	77.4)	3.82)		,	
Average HRV	35.6	30.6 (22.0,	-5.04 (-	0.23	39.9 (30.2,	42.9	3.00 (-5.03,	0.46	8.04 (-3.47, 19.55)	0.17
J	(25.8,	39.2)	13.29,		49.7)	(34.5,	11.03)		, , ,	
	45.4)	,	3.21)		,	51.4)				
Average MET	1.43	1.42 (1.36,	-0.007 (-	0.72	1.42 (1.37,	1.36	-0.061 (-	0.001***	-0.054 (-0.107,	0.049#
J	(1.37,	1.48)	0.046,		1.48)	(1.30,	0.097, -		0.000)	
	1.48)	•	0.031)		,	1.42)	0.024)		·	
Average	65.6	65.9 (61.9,	0.31 (-	0.77	65.2 (61.5,	64.9	-0.25 (-	0.81	-0.56 (-3.43, 2.31)	0.70
Resting Heart	(61.9,	69.9)	1.75,		68.9)	(61.0,	2.25, 1.75)			
Rate	69.3)		2.36)			68.9)				
Awake Time	3829.7	3414.5	-415.26 (-	0.25	3270.9	4169.4	898.53	0.012*	1313.79 (311.32,	0.01#
	(3285.1,	(2710.7,	1130.07,		(2727.9,	(3477.9,	(195.68,		2316.26)	
	4374.3)	4118.3)	299.55)		3813.9)	4861.0)	1601.37)			
Daily	7054.5	6625.8	-428.70 (-	0.45	7196.8	5094.7	-2102.14 (-	<0.001***	-1673.44 (-	0.033#
Movement	(5659.7,	(4965.8,	1542.25,		(5803.7,	(3476.0,	3162.54, -		3211.11, -135.76)	
	8449.2)	8285.8)	684.85)		8590.0)	6713.4)	1041.73)			
Deep Sleep	65.6	66.7 (56.6,	1.08 (-	0.82	78.8 (67.7,	83.0	4.22 (-4.74,	0.36	3.14 (-9.64, 15.93)	0.63
Score	(54.5,	76.8)	8.04,		89.9)	(73.0,	13.19)			
	76.8)		10.20)			93.0)				
Deep Sleep	3827.3	3669.7	-157.57 (-	0.71	5106.5	5467.7	361.21 (-	0.39	518.79 (-661.02,	0.39
Гime	(2722.7,	(2603.2,	1000.79,		(4002.6,	(4416.1,	463.97,		1698.59)	
	4931.9)	4736.2)	685.65)		6210.4)	6519.4)	1186.39)			
High Activity	1.21	0.53 (-0.07,	-0.677 (-	<0.001***	1.25 (0.67,	0.98	-0.265 (-	0.15	0.412 (-0.116,	0.13
Time	(0.63,	1.13)	1.061, -		1.83)	(0.41,	0.627,		0.940)	
	1.78)		0.292)			1.56)	0.097)			

Inactive Time	514.6	472.1	-42.52 (-	0.047*	476.0	387.1	-88.90 (-	<0.001***	-46.38 (-104.20,	0.12
	(451.4,	(395.6,	84.55, -		(412.8,	(312.2,	128.60, -		11.44)	
	577.9)	548.6)	0.49)		539.1)	462.0)	49.19)			
Light Sleep	13525.6	14788.1	1262.53 (-	0.20	14099.2	14750.8	651.54 (-	0.50	-610.99 (-3308.12,	0.66
Гime	(12043.5,	(12824.7,	670.62,		(12619.2,	(12835.0,	1229.26,		2086.13)	
	15007.7)	16751.5)	3195.68)		15579.2)	16666.5)	2532.33)			
Long Periods	0.431	0.454	0.0230 (-	0.79	0.538	0.468	-0.0697 (-	0.39	-0.0926 (-0.3235,	0.43
of Inactivity	(0.257,	(0.231,	0.1457,		(0.364,	(0.257,	0.2272,		0.1382)	
	0.606)	0.678)	0.1916)		0.712)	0.680)	0.0879)			
Low Activity	266.3	254.5	-11.85 (-	0.48	233.5	184.9	-48.62 (-	0.003**	-36.77 (-82.42,	0.11
Time	(222.2,	(208.9,	44.74,		(189.5,	(140.0,	80.28, -		8.88)	
	310.4)	300.1)	21.04)		277.6)	229.8)	16.96)			
Lowest	56.8	57.6 (53.8,	0.80 (-	0.39	56.4 (52.8,	56.0	-0.42 (-	0.64	-1.22 (-3.76, 1.32)	0.35
Resting Heart	(53.2,	61.4)	1.02,		60.0)	(52.2,	2.19, 1.35)		,	
Rate	60.4)		2.61)			59.8)				
Medium	33.6	31.7 (19.7,	-1.88 (-	0.67	39.9 (30.9,	28.6	-11.22 (-	0.008**	-9.35 (-21.28,	0.12
Activity Time	(24.6,	43.8)	10.52,		48.9)	(16.9,	19.45, -		2.59)	
	42.6)		6.76)			40.3)	2.99)			
Meet Daily	61.1	54.8 (39.4,	-6.33 (-	0.37	59.4 (44.2,	35.3	-24.13 (-	<0.001***	-17.80 (-36.92,	0.07
Targets Score	(45.9,	70.2)	20.09,		74.6)	(20.3,	37.39, -		1.32)	
	76.3)		7.44)			50.2)	10.86)			
Move Every	97.6	97.5 (96.3,	-0.08 (-	0.87	97.1 (96.2,	97.5	0.35 (-0.53,	0.43	0.43 (-0.86, 1.73)	0.51
Hour Score	(96.7,	98.8)	1.03,		98.1)	(96.3,	1.24)			
	98.6)		0.87)			98.7)				
Non-wear	95.1	124.8 (50.5,	29.73 (-	0.34	120.7	230.2	109.50	<0.001***	79.76 (-5.49,	0.07
Time	(37.1,	199.1)	31.78,		(62.8,	(157.6,	(50.46,		165.02)	
	153.1)		91.24)		178.7)	302.9)	168.53)			
Previous Day	79.7	77.0 (70.1,	-2.66 (-	0.27	75.3 (69.6,	70.5	-4.78 (-	0.041*	-2.12 (-8.70, 4.47)	0.53
Activity	(73.9,	83.9)	7.38,		81.1)	(63.7,	9.38, -0.19)		,	
Score	85.4)		2.05)			77.4)				
Previous	73.7	69.1 (63.7,	-4.55 (-	0.13	74.3 (69.8,	69.3	-4.95 (-	0.09	-0.41 (-8.53, 7.72)	0.92
Night Score	(69.2,	74.6)	10.36,		78.7)	(64.1,	10.63,		,	
	78.2)		1.27)			74.5)	0.73)			
Readiness	77.2	76.1 (73.4,	-1.08 (-	0.45	79.4 (76.8,	77.5	-1.97 (-	0.16	-0.88 (-4.80, 3.03)	0.66
Score	(74.6,	78.8)	3.88,		82.0)	(74.9,	4.70, 0.77)			
	79.8)	,	1.72)			80.0)				

Recovery	67.5	63.5 (56.1,	-4.01 (-	0.31	74.2 (68.6,	67.7	-6.48 (-	0.09	-2.47 (-13.27,	0.65
Index Score	(61.8,	70.9)	11.75,		79.8)	(60.7,	14.00,		8.33)	
	73.1)		3.74)			74.8)	1.05)			
Recovery	94.6	93.8 (88.2,	-0.86 (-	0.68	97.7 (92.4,	100.7	3.00 (-0.86,	0.13	3.86 (-1.73, 9.45)	0.18
Time Score	(89.4,	99.3)	4.90,		102.9)	(95.3,	6.86)			
	99.9)		3.18)			106.0)				
REM Sleep	83.4	79.7 (70.3,	-3.71 (-	0.22	80.8 (72.4,	74.9	-5.86 (-	0.047*	-2.15 (-10.43,	0.61
Score	(74.9,	89.1)	9.63,		89.2)	(65.6,	11.65, -		6.13)	
	91.8)		2.21)			84.2)	0.07)			
REM Sleep	7722.6	6180.8	-1541.78	0.03*	6649.8	5456.5	-1193.30 (-	0.09	348.48 (-1602.15,	0.73
Time	(6381.6,	(4842.3,	(-2935.64,		(5310.0,	(4147.4,	2557.89,		2299.11)	
	9063.6)	7519.3)	-147.92)		7989.6)	6765.6)	171.29)			
Respiratory	15.3	15.3 (14.6,	0.02 (-	0.91	15.4 (14.7,	15.6	0.18 (-0.12,	0.23	0.16 (-0.26, 0.59)	0.45
Rate	(14.6,	16.0)	0.29,		16.1)	(14.9,	0.48)			
	16.0)		0.32)			16.3)				
Resting Heart	82.4	79.1 (74.1,	-3.24 (-	0.30	84.9 (80.9,	81.7	-3.18 (-	0.29	0.05 (-8.45, 8.56)	0.99
Rate Score	(78.3,	84.2)	9.32,		88.9)	(76.9,	9.13, 2.76)			
	86.4)		2.85)			86.5)				
Restless	36.6	35.9 (29.7,	-0.68 (-	0.67	38.2 (32.0,	38.4	0.21 (-2.85,	0.89	0.90 (-3.49, 5.28)	0.69
Sleep	(30.5,	42.2)	3.82,		44.3)	(32.2,	3.27)			
	42.8)		2.45)			44.6)				
Rest Time	472.9	412.5	-60.39 (-	0.032*	486.5	383.3	-103.25 (-	<0.001***	-42.86 (-119.11,	0.27
	(438.5,	(355.3,	115.47, -		(452.2,	(328.3,	155.98, -		33.40)	
	507.3)	469.7)	5.31)		520.9)	438.2)	50.52)			
Sleep	74.2	78.4 (71.0,	4.25 (-	0.28	78.6 (73.3,	77.4	-1.17 (-	0.76	-5.42 (-16.25,	0.33
Balance	(68.9,	85.8)	3.53,		83.8)	(70.3,	8.69, 6.36)		5.40)	
Score	79.4)		12.04)			84.6)				
Sleep	87.1	88.0 (85.9,	0.89 (-	0.42	88.8 (87.1,	86.1	-2.68 (-	0.014*	-3.58 (-6.62, -0.53)	0.021#
Efficiency	(85.4,	90.1)	1.28,		90.5)	(84.0,	4.82, -0.55)			
	88.9)		3.06)			88.2)				
Sleep	86.8	88.6 (84.4,	1.74 (-	0.43	90.0 (86.7,	84.8	-5.22 (-	0.017*	-6.96 (-13.06, -	0.026#
Efficiency	(83.6,	92.7)	2.62,		93.2)	(80.7,	9.50, -0.94)		0.85)	
Score	90.1)		6.09)			88.8)				
Sleep	673.8	634.2	-39.65 (-	0.65	736.5	767.1	30.55 (-	0.72	70.20 (-169.87,	0.57
Latency	(513.3,	(449.3,	211.18,		(576.4,	(587.9,	137.42,		310.27)	
	834.4)	819.1)	131.88)		896.6)	946.2)	198.52)			

Sleep	84.1	85.2 (82.1,	1.03 (-	0.46	84.6 (82.2,	81.7	-2.94 (-	0.028*	-3.97 (-7.75, -0.19)	0.039#
Latency	(81.7,	88.3)	1.69,		87.0)	(78.7,	5.57, -0.32)			
Score	86.5)		3.74)			84.7)				
Sleep Score	79.7	78.5 (75.2,	-1.17 (-	0.46	79.7 (76.3,	77.6	-2.14 (-	0.17	-0.97 (-5.34, 3.41)	0.67
	(76.3,	81.9)	4.29,		83.1)	(74.4,	5.21, 0.93)			
	83.1)		1.95)			80.8)				
Sleep Timing	14743.5	14095.1	-648.44 (-	0.08	14546.0	14966.9	420.91 (-	0.25	1069.34 (47.50,	0.04#
	(13995.1,	(13294.8,	1375.71,		(13800.5,	(14174.8,	296.90,		2091.19)	
	15491.9)	14895.4)	78.84)		15291.6)	15759.1)	1138.71)			
Sleep Timing	88.4	80.4 (69.5,	-8.04 (-	0.10	66.5 (57.6,	65.6	-0.85 (-	0.86	7.19 (-6.24, 20.62)	0.29
Score	(79.5,	91.3)	17.63,		75.4)	(55.0,	10.24,			
	97.3)		1.56)			76.3)	8.54)			
Sleep	76.9	77.5 (71.1,	0.53 (-	0.77	78.0 (72.1,	74.5	-3.55 (-	0.049*	-4.08 (-9.15, 0.98)	0.11
Tranquility	(71.0,	83.9)	3.09,		84.0)	(68.2,	7.09, -0.01)			
Score	82.9)		4.15)			80.8)				
Stay Active	73.9	75.0 (70.2,	1.05 (-	0.55	77.2 (72.8,	80.5	3.24 (-0.10,	0.06	2.18 (-2.65, 7.01)	0.38
Score	(69.5,	79.8)	2.44,		81.6)	(75.7,	6.57)			
	78.4)		4.55)			85.2)				
Steps	8871.4	8613.9	-257.48 (-	0.74	8555.4	6056.6	-2498.89 (-	<0.001***	-2241.41 (-	0.035#
	(7194.2,	(6708.9,	1756.20,		(6879.5,	(4189.0,	3939.91, -		4320.51, -162.31)	
	10548.6)	10518.9)	1241.23)		10231.4)	7924.1)	1057.88)			
Target	402.9	415.4	12.45 (-	0.46	425.6	426.6	1.07 (-	0.95	-11.38 (-57.11,	0.63
Calories	(359.8,	(371.6,	20.48,		(382.5,	(383.6,	30.65,		34.34)	
	446.1)	459.1)	45.38)		468.7)	469.7)	32.79)			
Temperature	-0.061 (-	-0.088 (-	-0.0271 (-	0.48	-0.020 (-	-0.007 (-	0.0125 (-	0.74	0.0396 (-0.0650,	0.46
Deviation	0.111, -	0.162, -	0.1020,		0.069,	0.079,	0.0607,		0.1442)	
	0.010)	0.013)	0.0477)		0.030)	0.065)	0.0856)			
Temperature	89.5	88.4 (83.9,	-1.12 (-	0.66	89.2 (86.7,	85.9	-3.30 (-	0.19	-2.18 (-9.28, 4.92)	0.55
Score	(86.9,	92.8)	6.19,		91.7)	(81.6,	8.27, 1.67)			
	92.0)		3.95)			90.2)				
Total	29310.3	28048.3	-1261.99	0.11	29103.3	29774.0	670.68 (-	0.39	1932.67 (-233.80,	0.08
Bedtime	(27908.0,	(26486.0,	(-2803.55,		(27706.1,	(28230.8,	851.56,		4099.15)	
	30712.6)	29610.6)	279.56)		30500.6)	31317.3)	2192.92)			
Total Burn	2611.2	2626.2	15.00 (-	0.81	2590.0	2532.7	-57.33 (-	0.34	-72.33 (-241.29,	0.40
	(2430.3,	(2457.5,	106.66,		(2409.3,	(2367.2,	174.56,		96.62)	
	2792.0)	2794.9)	136.67)		2770.8)	2698.2)	59.90)			

Total Sleep	78.7	76.6 (71.5,	-2.13 (-	0.39	79.1 (74.5,	77.5	-1.66 (-	0.49	0.47 (-6.29, 7.22)	0.89
Score	(74.0,	81.6)	6.94,		83.8)	(72.4,	6.41, 3.08)			
	83.4)		2.68)			82.5)				
Total Sleep	25305.6	24568.6	-737.01 (-	0.24	25840.0	25469.4	-370.67 (-	0.55	366.34 (-1346.64,	0.68
Time	(24042.3,	(23321.1,	1955.14,		(24580.9,	(24234.4,	1575.01,		2079.31)	
	26569.0)	25816.1)	481.12)		27099.2)	26704.3)	833.66)			
Training	57.6	49.4 (29.8,	-8.20 (-	0.35	76.7 (60.9,	54.4	-22.31 (-	0.007**	-14.11 (-37.72,	0.24
Frequency	(41.7,	69.1)	25.24,		92.6)	(35.3,	38.66, -		9.51)	
Score	73.5)		8.84)			73.5)	5.96)			
Training	74.8	63.6 (47.7,	-11.21 (-	0.06	81.3 (70.4,	63.2	-18.07 (-	0.002**	-6.87 (-23.19,	0.41
Volume	(63.9,	79.5)	23.00,		92.1)	(47.6,	29.37, -		9.46)	
Score	85.6)		0.58)			78.8)	6.78)			

#between group *p* value less than 0.05

^{*}within-group *p* value less than 0.05

^{**}within group *p* value less than 0.01

^{***}within group p value less than 0.001