SUPPLEMENTARY MATERIAL

Figure S1. Training volume diagram of each session for both interventions

ENDURANCE TRAINING COMBINED TRAINING 5 min of warm-up 5 min of warm-up 20 min of strength exercises 45 min of endurance 50-80% of 1 RM exercises 60-80% of maximum HR 25 min of endurance exercises 60-80% of max HR 5 min of cycling with 5 min of cycling with minimal workload minimal workload 5 min of cool down 5 min of cool down stretching and breathing stretching and breathing

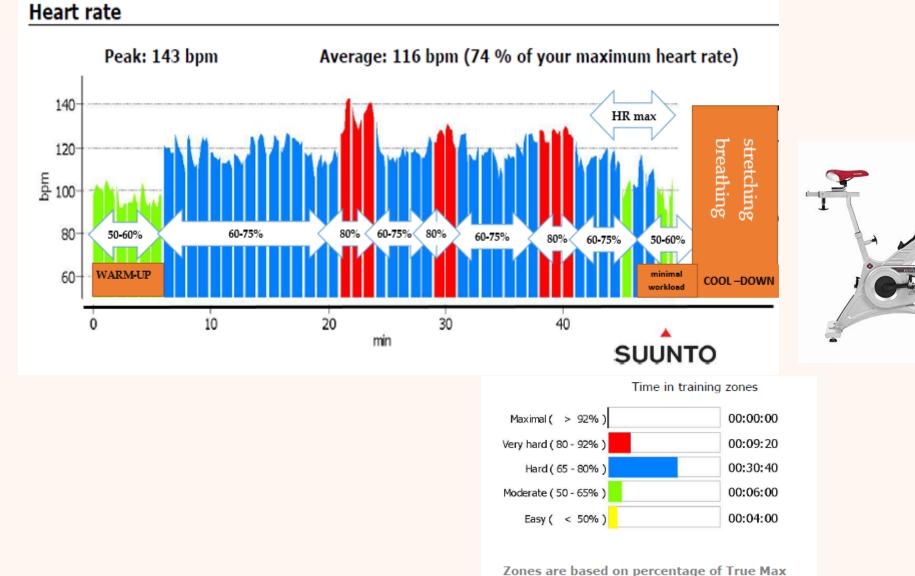
The 3-month intervention consisted of physical exercise program including 3 sessions of training per week, with a total of 36 training sessions for each group. The training programs of both groups were comparable in exercise volume, and varied only in the nature of the effort (Figure S1).

Endurance training consisted of a 5-min low-intensity warm-up (stretching exercises; 50-60% of maximum heart rate (HR), 45 min of training at an intensity of 60-80% of maximum HR, 5 min of non-weight-bearing cycling, finishing with 5 min of low-intensity warm-down stretching and breathing exercises (Figure S2).

Combined endurance-strength training consisted of a 5-min low-intensity warm-up (stretching exercises; 50-60% of maximum HR), 20 min of strength exercises using a barbell and gymnastics ball, 25 min of endurance exercise using cycle ergometers at an intensity of 60-80% of maximum HR, 5 min of non-weight-bearing cycling, and 5 min of low-intensity cool down stretching and breathing exercises (Figure S3). Due to the need for regeneration of muscle power, the strength component was variable and repeated each week. On Mondays, upper limb exercises were performed with a neck barbell; Wednesdays involved spine-stabilizing exercises, deep muscle-forming exercises, and balance-adjusting exercises with a gymnastic ball; on Fridays, lower limb exercises with a barbell were carried out (Table S1). The number of repetitions in the sets was dependent on the subjects' capabilities and was equal to the number of repetitions performed correctly ≈ 50–80% of their one-repetition maximum. The number of repetitions was systematically increased with the increase in subject's muscle strength. HR during both physical trainings was monitored with a Suunto Fitness Solution® device (Suunto, Vantaa, Finland).

EXAMPLE OF ENDURANCE TRAINING CLASS

Figure S2. Bar graph showing intensity of endurance training on cycle ergometer (Schwinn® Evolution®) based on heart rate chart (Suunto Fitness Solution®) of the selected participant



Heart Rate

EXAMPLE OF COMBINED TRAINING CLASS

1. Warm-up – 5 minutes

2. PART I- STRENGTH EXERCISES - 20 minutes

Table S1. Structure of strength exercises over the week

Day	Monday	Upper limb exercises with a neck barbell		Wednesday	sday Spine-stabilizing and balance exercises with a gymnastic peanut ball		Friday	Lower limb exercises with a neck barbell	
Exercises	1.	2.	3.	1.	2.	3.	1.	2.	3.
	Standing	Standing	Standing	Kneeling	Lying	Straddle sit	Barbell	Barbell squats	Isometric
	position.	position.	position.	straight on	forward on a	on the	squats to the	to the right	contractions
	Barbell	Barbell	Barbell curl	peanut type	peanut type	peanut ball	right angle	angle (barbell	with knees
	overhead	behind neck	in a full	gymnastic ball	gymnastic ball	(the body	(barbell	behind the	bent to the
	press. After	press. After	range of	(perpendicular	(lying along a	should not	behind the	neck) in a	right angle
	3 sets- 1-	3 sets- 1-	motion.	to the long side	peanut ball	touch the	neck) in a	variable pace	squat in a
	minut	minut break.		of the peanut	with a	ground).	moderate	(1 x slow, 1x	variable
	break.			ball) -	possibility to		pace.	fast, 2x slow,	duration,
				maintaining	hold on the			2x fast, 3x	according to
				balance.	ball) - keeping			slow, 3x fast,	the scheme:
					the balance on			4x slow, $4x$	10s, 15s, 20s,
	Between sets, participants performed a			the ball so			fast, 5x slow,	25s, 30s, 25s,	
				that no part of			5x fast).	20s, 15s, 10s.	
	10–15s isometric exercises with the elbows bent halfway (at 90 degree).				the body				
					touches the				
					ground.				
Number of sets/repetitions		3/16 *	3/16 *	Depending on the level of advancement, the					
	3/16 *			goal of the exercise is to maintain balance as			6/30 *	6/30 *	9 *
				long as possible.					

^{*}The number of repetitions in the set was dependent on the subject's muscle strength and was equal to the number of repetitions performed correctly estimated to be 50–80% of their one-repetition maximum

3. PART II- ENDURANCE EXERCISES- 25 minutes (immediately after strength exercises)

Figure S3. Bar graph showing intensity of endurance exercises in a combined training on cycle ergometer (Schwinn® Evolution®) based on

