IN COMMON SPORTS + FIT, FOOD AND FUN FOR ELDERLY! 2021 - 2023 *** 2 ~ ~ ~ ~ ~ * * ***

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Training plan suggestion



60 min 10' Warm up session

60 min 10' Warm up session

20' Strength training

45' Adapted Sports Games

20' Cardio Training

5' Cooldown

10' Cooldown





In this first phase, we include more general exercises of an aerobic nature, including tasks that promote the activation of the main physiological systems.

This phase aims to:

- 1. Increase body temperature;
- 2. Increase heart rate;
- 3. Increase ventilation,
- 4. Increase blood flow;
- 5. Decrease joint fluid viscosity through low intensity activities.

Bishop, 2003a; Bishop, 2003b



Warm up should:

- 1. Include general full-body movements;
- 2. Have an intensity between 40 to 60% of VO_2max ;
- 3. Calisthenic movements;
- 4. Promote a progressive increase in intensity;
- 5. Avoid causing fatigue or reduced energy reserves.

Law et al., 2007









This warm up phase should comprises:

- Movements similar to those included in the modality;
- Repetitions of skills to be performed in competition;

In this phase, the main movement patterns for athletic performance are executed. And the main focus is on intensity and mobility of movement.

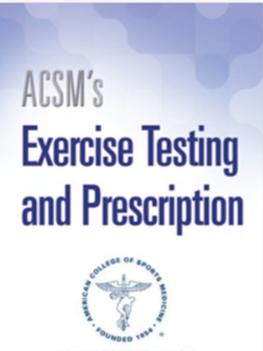
Bishop, 2003b







- 2 a 3 training per week with 2 days apart between training sessions;
- ✓ 8 to 10 exercises per training session according to the different body parts;
- ✓ 1 to 3 sets per exercise;
- ✓ 8 to 12 repetitions per set;
- Progression according to the number of training session per week, number of exercises per training sessions, number of sets per exercise, repetitions per set and intensity of each repetition.



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Training	Initial	Progression	Maintenance
Week (n)	4	4-8/12	>8/12
Training/week (n)	2	2-3	3
Exercises/training (n)	8-10	8-10	8-10
Sets/exercise (n)	1-2	2-3	2-3
Repetitions/sets (n)	12	8-12	8
Intensity (0-10)	4	5/6 - 7/8	7-8
Execution (s)	2/2	2/2	2/2
Rest between exercises (min)	2	2	2
Total strength training time (min)	20-25	30-40	30-40





Perform 6–12 reps with variation for muscular strength for healthy older adults;

- Perform 10–15 repetitions at a lower relative resistance for beginners;
- Exercises should be performed in a repetition-range intensity zone that avoids going to failure to reduce joint stress;
- Include major muscle groups targeted through multijoint movements

e.g., chest press, shoulder press, triceps extension, biceps curl, pulldown, row, lower-back extension, abdominal crunch/curl-up, quadriceps extension or leg press, leg curls, and calf raise



Original Research

Journal of Strength and Conditioning Research

Resistance Training for Older Adults: Position Statement From the National Strength and Conditioning Association

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Abstract

Fragais, MS, Cadore, EL, Dorgo, S, Izquierdo, M, Kraemer, WJ, Peterson, MD, and Pyan, ED. Resistance training for older adults: position statement from the national strength and conditioning association. *J Strength Cond Res* XX(%): 000–000, 2019—Aging, even in the absence of chronic disease, is associated with a variety of biological changes that can contribute to decreases in skeletal muscle mass, strength, and function. Suchlosses decrease physiologic resilience and increase vulnerability to catastrophic events. As such, strategies for both prevention and treatment are necessary for the heath and well-being of older adults. The purpose of this Position Statement is to provide an overview of the current and relevant literature and provide evidence-based recommendations for resistance training for older adults. As presented in this Position Statement, current research has demonstrated that countering muscle disuse through resistance training is a powerful intervention to combat the loss of muscle strength and muscle mass, physiological vulnerability, and their debilitating consequences on physical functioning, mobility, lidependence, chronic disease management, psychological adaptations, (c) functional benefits, and (d) considerations for resistance training regram design variables, (b) physiological adaptations, (c) functional benefits, and (d) considerations for frelity, sarcopenia, and other chronic conditions. The goal of this Position Statement is to a) help beter a more unified and holistic approach to resistance training for older adults, b) promote the health and functional benefits of resistance training for older adults, b) promote the health and functional benefits of resistance training for older adults, b) promote the health and functional benefits of resistance training for older adults.

Key Words: strength training, elderly, frail, seniors, exercise, resistance exercise

Strength and Balance Training



	Understanding the Rating of Perceived Exertion (RPE) Scale					
vel		General Effort Level	% of 1-Repetition Maximum (1RM)	Additional Repetitions Possible		
he efort scale		10 Maximal 9 Near-Maxima		0 more reps 1-2 more reps		
ne elort scale		8 Very Hard 7 Hard	80% 1RM 70% 1RM	3 more reps 4 more reps		
the efort scale		6 Moderate-Har 5 Moderate 4 Moderate	rd 60% 1RM 50% 1RM 40% 1RM	5 more reps 6-7 more reps 8-10 more reps		
		3 Light-Moderat 2 Light		11-14 more reps 15-20 more reps		
		 Very Light No Effort at al 	10% 1RM I 0-10% 1RM	21-30 more reps 30+ more reps		

Beginner level moderate – 4 on the efort level

Intermediate level moderate to hard – 5-6 on the efort scale

Advanced level hard to very hard – 7 – 8 on the efort scale





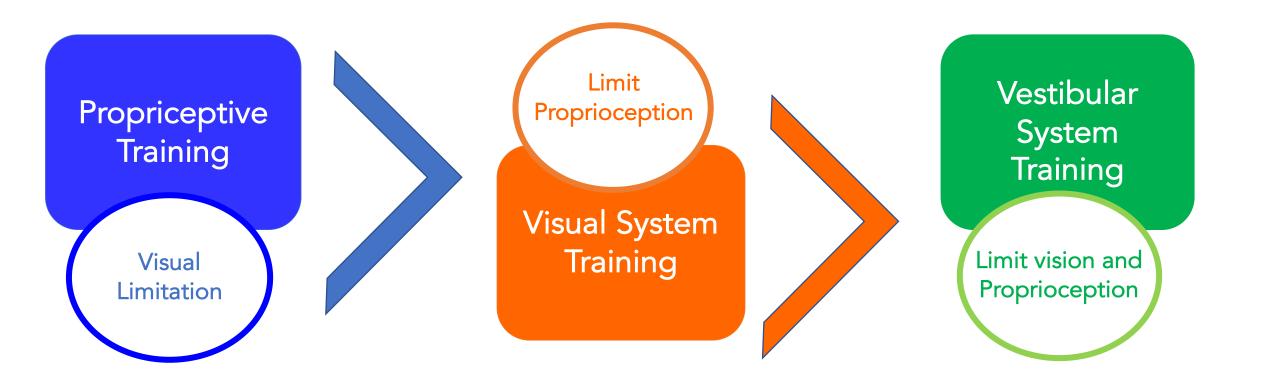
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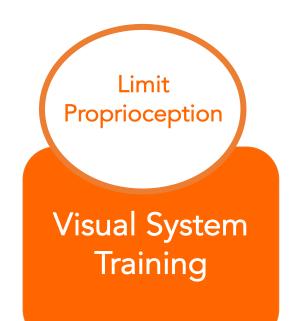


Visual Limitation











https://www.acefitness.org/certifiednewsarticle/687/designing-balance-exercise-programs-for-older/





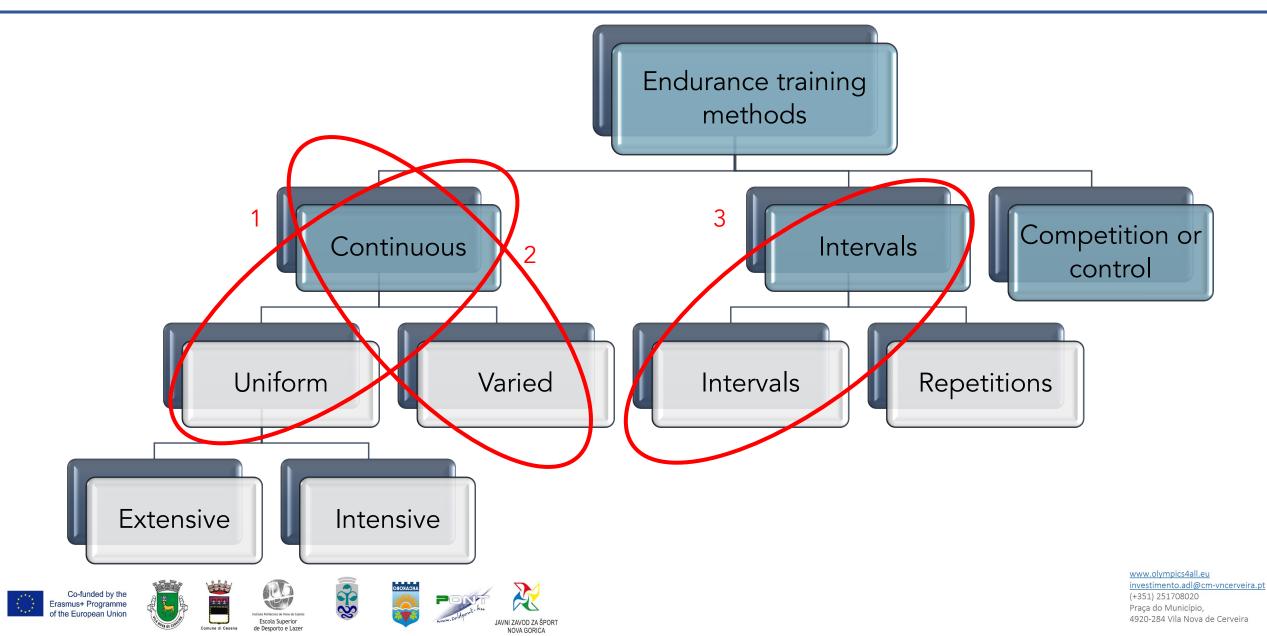
Vestibular System Training Limit vision and Proprioception





Cardio training





Cardio training

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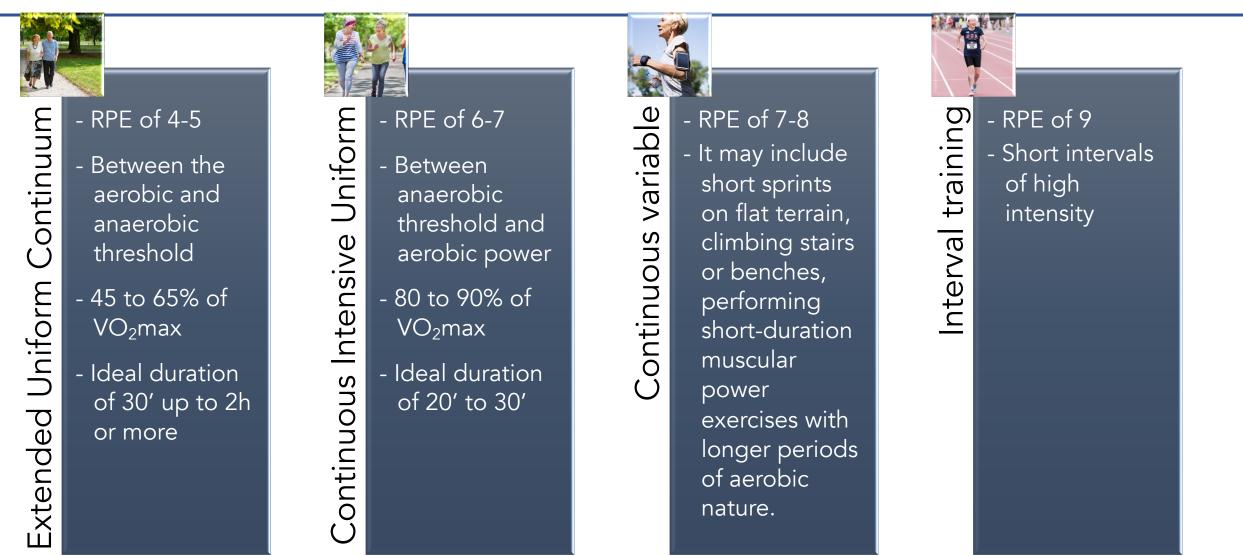
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An active cool-down should:

- (1) involve dynamic activities performed at a low to moderate metabolic intensity to increase blood flow, but prevent development of substantial additional fatigue;
- (2) involve low to moderate mechanical impact to prevent the development of (additional) muscular damage and delayed-onset muscle soreness;
- (3) be shorter than approximately 30 min to prevent substantial interference with glycogen resynthesis;
- (4) involve exercise that is preferred by the individual athlete, with some evidence also suggesting that an active cool-down should involve the same muscles as used during the preceding activity.

Van Hooren, B., & Peake, J. M. (2018).



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Thank you for your attention!