Physiological low-moderate	ed Sci. 2004 May;59(5):503-9.
low-moderate	and functional responses to
	and functional responses to versus high-intensity progressive ining in frail elders.
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dose-response effect comparing the effects	ne purpose of this efficacy study was to measure the et of a free weight-based resistance training program by s of two training intensities (low-moderate and high) of the knee es on muscle function, functional limitations, and self-reported
trial. Twenty-two instii either high-intensity s training (Ll; n = 6), or trained at 80% of the groups performed 3 s measures included K	hors conducted a single-blinded, randomized, placebo-controlled tutionalized elders (mean age, 81.5 years) were assigned to strength training (HI; n = 8), low-moderate intensity strength weight-free placebo-control training (PC; n = 8). The HI group ir 1-repetition maximum and the LI group trained at 40%. All sets of 8 repetitions, 3 times per week for 10 weeks. Outcome in terms and strength, KE endurance, and functional performance inute walking, chair-rising, and stair-climbing tests, and by y.
improved significantly walking distance impl compared with the P0 from those observed walking test, with a tre	gth and endurance, stair-climbing power, and chair-rising time y in the HI and LI groups compared with the PC group. Six-minute roved significantly in the HI group but not in the LI group C group. Changes observed in HI were significantly different in the LI group for KE strength and endurance and the 6-minute end in the same direction for chair-rising and stair-climbing. were significantly related to changes in functional outcomes, % of the variance.
CONCLUSIONS: The resistance training in functional improvement training of the KE muperspective to achieve HI, free weight-based	ese results show strong dose-response relationships between tensity and strength gains, and between strength gains and ents after resistance training. Low-moderate intensity resistance scles may not be sufficiently robust from a physiologic ve optimal improvement of functional performance. Supervised d training for frail elders appears to be as safe as lower intensity ffective physiologically and functionally.
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