

عنوان مقاله:

Effect of Twelve-Week hypoxic interval training on lung volumes and records of elite swimmers in Δο and ۱οο meters breaststroke

محل انتشار:

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خلاصه مقاله:

Introduction: Holding the breath during exercise causes hypoxia. This study set out to investigate the effect of the IYweek hypoxic interval training on lung volume and records of elite swimmers in $\Delta \circ$ and $\lambda \circ$ meters breaststroke. Methods: In this quasi-experimental study, YY male swimmers were randomly divided into the hypoxic interval training group (n: ١٣; age: ١۶.۶١±١.٣٩ years; height: ١٧٧.٩٢±١.٩۴ cm; weight Yo.١٧±٣.۵Δkg) and normal training group (n: ٩; age: ነ۶.۶۷±۱.۱۶ years; height: ۱۷۶.٣٣±۵.۲۴cm; weight ۶۷.٨٣±۴.۲۴kg). The hypoxic interval training program included ٣-٨ sets of Y۵-Y00 m breaststroke and the butterfly (breathing every F-5 strokes), six-time per week for IY weeks. The normal training routine performed without breath-holding (breathing every Y strokes). The FIVC, FEV1, FVC, and FIV1 parameters, as well as records in ۵-m and 1-m swimming were measured pre- and post-training. The obtained data was analyzed with ANCOVA (P<o.oΔ). Results: Swimmers' records in both Δo m and loo m swimming scenarios significantly decreased after the application of the hypoxic interval training program. The FIVC, FEV1, FVC, and FIV1 parameters significantly increased only after the hypoxic training (P<o.oΔ); in addition, the post-training values of these variables were significantly higher in the experimental group than the control group (P<o.o\alpha). However, no significant change was observed in the values of these variables in the normal training group (control). Conclusion: It seems that the 1Y-week hypoxic interval training program can increase the lung volume and improve the records of the elite .swimmers in ∆∘m and \o∘m breaststroke

كلمات كليدى:

Hypoxic, Lung Volume, Swimming Record, Hypoxic, Lung Volume, Swimming Record

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