

CENTRAL INSPIRATORY ACTIVITY IN PATIENTS WITH HYPOCAPNIA

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Summary

The aim of the study was to evaluate a central inspiratory activity (CIA) in patients with hypocapnia. 57 patients were examined: 34 patients with IPF, 7 patients with NSIP and 16 patients with COPD. Depending on blood gas composition the patients were distributed in groups. In general in all examined patients we revealed increased CIA - P0.1 reached $(185,7 \pm 15,6) \%$. In group of patients with hypocapnia the value of P0.1 index, which was an objective criterion of CIA, was significantly ($p < 0,05$) higher $(271,9 \pm 48,9) \%$ than in patients with normal blood gases composition. These data suggest that in patients with hypocapnia a CIA is kept on high level due to hypoxic stimuli, but this does not prevent potential side effects of oxygen therapy, i.e. development of hypoventilation and increasing grade of hypoxemia during a transition to atmospheric air breathing.