

THE RESULTS OF SAFETY STUDY OF OXYGEN THERAPY IN PATIENTS WITH INTERSTITIAL LUNG DISEASES AND BLOOD HYPOCAPNIA

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Summary

A stable hypocapnia decreases an activity of afferent link of respiratory control center. Based on this fact we can assume that oxygen therapy due to an insufficient hypoxic stimulation can cause hypoventilation and deterioration of blood gas composition during the transit of patients to an atmospheric air breathing. We conducted a study of blood gas composition, central inspiratory activity and lung ventilation in 11 patients with interstitial lung diseases with hypoxia and hypocapnia throughout the course and upon completion of oxygen therapy. We established that the change of major studied indices corresponded to the normal physiological response on inhalation of hyperoxic gas mixture. Hypocapnia itself is not a contraindication for oxygen therapy in patients with interstitial lung diseases.