

عنوان مقاله:

An assessment effect of low tidal volume ventilation in on-pump Coronary artery bypass graft surgery on postoperative pulmonary complications: A double-blind randomized clinical trial

محل انتشار:

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نویسندگان:

Masoud Latifi-Pour - *Chemical Injuries Research Center and Systems Biology and Poisonings Institute, Baqiyatallah University of Medical Sciences, Tehran, Iran*

Seyed Mohammadreza Amouzegar Zavareh - *Arthrosclerosis research center, Clinical Sciences Institute, Baqiyatallah University of Medical Sciences, Tehran, Iran*

خلاصه مقاله:

IntroductionThis study aimed to assess the effect of low tidal volume ventilation in on-pump Coronary artery bypass graft surgery on pulmonary complications.**Methods**This study was conducted in Baqiyatallah Hospital from June ۲۰۲۱ to June ۲۰۲۲. ۶۰ patients ASA class ۱ and ۲ CABG candidates were randomly divided into two intervention and control groups. Patients in the intervention group receive ventilation with a tidal volume (۳-۴ ml/kg) and several ۶-۸ breaths/minute. The control group doesn't receive any ventilation per the hospital routine after undergoing CPB. Renal and hepatic parameters are recorded before and on the first, second, and third days after surgery. Vital signs, duration of mechanical ventilation in ICU-OH, and duration of hospitalization in ICU were recorded.**Results**The average Cr, three days after the operation in the first group, was higher than the second group ($P=۰.۰۳۷$). The average SGPT, three days after the operation in the first group was higher than the second group ($P=۰.۰۳۱$). The average SGOT after surgery in the first group was higher than in the second group. The average ALK, two days and three days after surgery in the first group was higher than in the second group. The average CRP, three days after the operation in the first group was lower than the second group ($P=۰.۰۰۱$).**Conclusion**This research showed no significant difference in the two groups' average operation duration, ultrafiltration volume, X Clamp duration, ICU hospitalization duration, mechanical ventilation duration, and CPB duration. Management of ventilation during cardiovascular surgery is .challenging

کلمات کلیدی:

Ventilation, on-pump Coronary artery bypass graft surgery, pulmonary complications

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