

Fibrinogen and Fibrin Degradation Products' Levels in Cardiopulmonary Bypass with Mild-Hypothermia versus Normothermia

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Background:

Coagulation cascades are activated during Cardiopulmonary Bypass (CPB) and their proper monitoring and maintenance determine the outcomes of operation to a big extent. Here, we assessed serum fibrinogen and Fibrin Degradation Products (FDP) in adult patients undergoing CABG with using CPB, either with hypothermia or normothermia. Materials and Methods: In a cross-sectional study, 80 adult patients' candidate for elective CABG were randomly assigned into two groups:

hypothermia and normothermia to assess fibrinogen and FDP, perioperatively. Results: Patients included 32 men (80%) in the hypothermia group and 26 men (60%) in the normothermia with the mean age of 61.43 ± 12.64 years.

The mean temperature in the hypothermia group was 32.33 ± 1.44 and 35.33 ± 0.71 in the normothermic group. Differences in fibrinogen levels between the two groups were not significant (Fib before CPB, $P=0.893$, and Fib after declamping, $P=0.057$). The serum level of FDP before and during CPB was not significantly different in hypothermia and normothermia groups ($P=0.412$, $P=0.778$, respectively). Conclusion: During cardiac surgery in hypothermia and normothermia conditions rate of fibrinogen decreased 25% after declamping in each group; this decrease seems to be due to hemodilution. FDP levels were similar in both groups

Recent Publications

1. "Evaluation of the safety and efficacy of low dose propofol infusion compared to midazolam during colonoscopy and retrograde cholangiopancreatography" Knowledge & Health journal. Spring 2013, Volume 8, Number 1.
2. "Fibrinogen and Fibrin Degradation Products' Levels in Cardiopulmonary Bypass with Mild-Hypothermia versus Normothermia" Journal of Cellular & Molecular Anesthesia, Vol. 5 No. 3 (2020), 19 October 2020
3. "Pulmonary Disorder in a Patient Recovering from Coronavirus Disease 2019 in Cardiac Surgery: Case Report and Review". Int J Cardiovasc Res 9:6. October 2020
4. "Comparing Two Kinds of Prime Solution between Ringer/Albumin and Ringer Lactate/Gelatin for Patients Undergoing Cardiopulmonary Bypass". Int J Cardiovasc Res 2021 10:5.
5. shariffardd F, nazari N, Asayesh H, Ghanbari Afra L, goudarzi rad M, shakeri M, et al . Evaluation of psychological disorders in nurses facing patients with colloid 19 in 2020. Qom Univ Med Sci J. 2021; 15 (2)

Biography

I have completed my M.S in Cardiovascular Science at the age of 30 years from Shiraz University of Medical Sciences, Iran. I am working as a Faculty of Anesthesia department of Qom University of Medical Sciences, Iran. I have 5 publications and have 6 lectures in international congresses. Also, I have been serving as a reviewer of several reputed journals.

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