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Role of tranexamic acid on platelet level in cardiac surgery

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The CABG may lead to severe bleeding that the most common cause of bleeding in cardiac surgical patients is the fibrinolysis and platelet inhibition by Cardiopulmonary Pump (CBP). Therefore, researchers with use of drugs such as tranexamic acid, looking to reduce this side effect. Nowadays A lot of research on the effects of this drug on postoperative bleeding and blood factors is done. Because of Platelets play a key role in hemostasis and one of the primary causes of uncontrolled bleeding is loss of platelets and little research has examined the effect of tranexamic acid on the platelets level, this study examine the effect of intravenously administered tranexamic acid on platelet level in patients under CABG. Patients 50-70 years with ASA class 2 & 3, scheduled for CABG, were included in this randomized clinical trial study in Ahwaz Golestan Hospital on 2011. They were allocated to 7 blocks. They randomly treated whit a combination of fast or slow tranexamic acid infusion technique and dose (10, 15 & 20Mg/Kg) but control group not given drug. Finally the platelet levels and some other factors were measured. There was no significant difference in platelets level between the control and other groups (p=0.49). Also Comparison of pre-and postoperative platelet level average shows no significant difference in 7 blocks (p=0.173 vs p=0.175). Tranexamic acid it can be used as a safe drug without changing the balance of the blood platelets; of course, this finding need more research by researchers.

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