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Letter to the Editor Open d Access

# The Importance of Myocardial Protection in Valve Surgery

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#### Dear Editor.

We read the article by Mishra et al, titled "Successful Anaesthetic Management of Triple Valve Surgery (Double Valve Replacement and Tricuspid Valve Ring Repair)- Challenges and Troubleshooting" with great interest [1]. First of all, we congratulate the authors for their valuable contribution to the literature. We would like to point out some problems regarding the content of the article and ask some questions to the authors.

Cardioplegic solutions are an essential part of cardiac surgery to achieve diastolic cardiac arrest during surgery and make surgery safer. Cardioplegic solutions can be blood or crystalloid based. There is current debate in cardiac surgery regarding which cardioplegic solutions provide the highest degree of myocardial protection during cardiac arrest. It is known that cardioplegic solutions are closely related to myocardial protection, perioperative mortality and morbidity, and distant survival during prolonged aortic cross-clamp time [2-4]. In current cardiovascular surgery, solutions such as blood cardioplegia, St. Thomas 2 solution, Bretschneide solution, del Nido cardioplegia are used in different clinics to prevent myocardial ischemia [5]. In our clinic, we use del Nido cardioplegia in valve surgery that we estimate will take a long time, and we have seen that in cases where we have extended the diastolic arrest time to 120 minutes, we have minimized myocardial ischemia in our postoperative results. The authors preferred which cardioplegic agents in this surgical experience.

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## **Declaration of Conflicting Interests**

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