Importance of Cardiopulmonary Bypass Period on Systemic Inflammatory Response

Orhan Gokalp,¹ Nihan Karakas Yesilkaya,² Yuksel Besir,² Hasan Iner,² Levent Yilik,¹ Gamze Gokalp,³ and Ali Gurbuz¹

Keywords: importance, cardiopulmonary, bypass

We would like to mention the study of Geyik et al. about coronary bypass (CBP) period and systemic inflammatory response is very interesting and useful.¹ As the authors stated, strong systemic inflammatory response takes place due to mediators caused by contact of blood and extracorporeal surface during CBP, myocardial ischemia reperfusion secondary to aortic cross-clamping (ACC), endotoxemia and operative trauma.²–⁴ It is obviously seen that CBP is the most important factor among these. Related to that, when the study of Geyik et al. is considered, there is a general standardization of perioperative data between two groups that are distinguished up to operation period. However, we claim that there shouldn’t be any difference also in between CBP periods and between ACC periods in order to have a reliable comparison in terms of systemic inflammatory response; because many studies revealed that systemic inflammatory response is increased by longer periods of CPB and ACC.³–⁵ In this point, we suggest that the study would be more valuable if the authors share these data with us.

Disclosure Statement

The authors declare that they have no conflict of interest.

References