

## Evaluation of Intra-Aortic Ballon Pump Outcome in Cardiac Surgical Patients after and before of surgery from 2009-13.

### Abstract

### Introduction

Intra-aortic ballon pump (IABP) is a mechanical device that has become an accepted treatment modality for patients with severely compromised hemodynamics. This study compares the results of intra aortic balloon pump before and Intraoperative cardiac surgery.

### Materials and Methods

This descriptive study on patients who underwent cardiac surgery in Imam Khomeini hospital during 2009-13 had been done. Patients were divided into two groups, one group balloon pump insertion before surgery and another group for which the pump was used during or after surgery. For each patient, a questionnaire consisting of cardiovascular risk factors, echocardiographic results, timing of blood outside the body, clamp and fill the information of the file was extracted and analyzed at the end.

### Results

In this study, 63 patients were studied for the 65.1% male, mean age of patients was 67.42 years. In this study, the increase in the ejection fraction of patients after cardiac surgery embedded in the pump before surgery significantly more than other groups. The mortality rate in the group receiving preoperative aortic pump was more than the other groups ( $P = 0.045$ ). The duration of surgery was also observed that circulating outside the body ( $P = 0.039$ ), aortic clamping ( $P = 0.024$ ) and affiliation with the balloon ( $P = 0.030$ ) in the group receiving pump station Ayntraayvrytk preoperative surgery was significantly lower than in other Kratryaha significant differences were observed.

### Conclusions

The results showed that the pump is placed inside the aorta in patients with preoperative prognosis is better for them to be built and increasing ejection fraction more and intraoperative period is for less than the other groups.

**Keywords:** intra-aortic balloon pump, Cardiac Surgery, Imam Khomeini Hospital.