

## **Abstract**

**Introduction:** C- reactive protein (CRP) value can identify the risk level for acute coronary syndrome (ACS). Ivabradine, a selective inhibitor of the funny current channel, reduces resting and exercise HR without affecting cardiac contractility or blood pressure.

**Aim of work :** evaluate the influence of Ivabradine on long term prevention of major adverse cardiac events (MACE) using high sensitivity crp ( hs CRP ) **Methodology :** 60 pts admitted with ACS over the period of 6 months. *cardiac enzymes* were withdrawn on admission and every 6 hours thereafter for 24 hours then followed up daily for five days and when indicated. *high sensitivity C- reactive protein (hs-CRP)*(quantitative value) which was done on day of admission and repeated for follow up at day 4 and at day 30 patients divided into two groups each 30 pts : group (A) who received conventional therapy & ivabradine , group ( B ) who recieved conventional therapy only. Ivabradine given Within 48hr of admission 5 mg twice daily upgraded to 7,5 mg twice daily after one week if tolerable *Myocardial perfusion imaging (MPI)*:Patients were subjected to Technetium<sup>99</sup> sesta MIBI Myocardial perfusion imaging (MPI) within 6 to 8 hours after admission and were followed up on day 30 with the same dose of injection using multi-sepct Siemens dual head gamma Camera **Results :**There were significant variances in Hs-CRP value at day 30 in both groups ( $P < 0.001$ ). Patients of group A showed statistically significant lower level of hs-CRP at day 30 compared to group B ( $0.7 \pm 0.3$  mg/dl versus  $1.66 \pm 0.9$  mg/dl;  $P$  value  $< 0.001$ ) but there was no statistically significant difference between both groups regarding 30 days follow up MACE ( $P$  value 0.552).**conclusion** Adminstration of ivabradine within 48 hours of CCU admission decreased hs-CRP level in patients with acute coronary syndrome (unstable angina).but did not decrease the occurence of major cardiac events in ACS patients.

**Key Words :**

Ivabradine - C-reactive Protein Level .