ABSTARACT

Adrenomedullin With Prognostic Value of **Patients** left in ventricular systolic dysfunction after Acute Myocardial an Infarction

Objectives This study sought to assess the prognostic impact adrenomedullin myocardial of ADM after an acute infarction (AMI).

Background Adrenomedullin (ADM) is elevated in heart failure (HF) and after AMI and compared it with N-terminal pro-B-type natriuretic peptide (NTproBNP), a marker of death and HF.

We measured plasma ADM and **NTproBNP** 60 Methods post-ST consecutive elevated AMI patients systolic dysfunction (< EF 50%), (45 men, represents 75% with mean age57.6±8.4 years old), 3 to 5 days after chest pain onset.

age of studied Results Mean patients was 57.6 ± 8.4 years old (Range 35-80). Males constituted 73.3% (44 of our study population males), we found mean NYHA 2.8, mean Killip class of 2.9 and mean TIMI risk score of 8.3.

Follow-up was done at 90 days. Forty eight patients survived (80%). Two patients experienced cerebrovascular events (3.3%), two patients experienced re-infarction (3.3%), and seven patients experienced life-threatening arrhythmias (11.7%).

ADM had proved to have a significant prognostic value in predicting mortality if compared to Pro-BNP as evidenced by plotting the ROC curve that revealed AUC for ADM to be 0.977 and 0.775 for Proprognostic The same significant higher BNP power for ADM using ROC curve and estimating AUC. applies for predicting MACE showed that ADM Multivariate analysis was the only predictor for MACE. ADM: (OR 1.62, CI 95%: 1.19-2.20, P value .002).

Conclusion The ADM system is activated after AMI. The ADM may represent a clinically useful marker of prognosis in patients with LV dysfunction after an acute AMI.

Key words: ADM (adrenomedullin)),AMI (acute myocardial infarction), AUC (area under the curve,MACE (major adverse cardiovascular events).