

## Acute myocardial infarction as first presentation of coronary heart disease in Saudi Arabia

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**A**cute myocardial infarction AMI in the setting of acute coronary syndrome (ACS) carries an ominous prognosis. We sought to assess the incidence, in-hospital outcomes among patients who presented with AMI as first presentation of ACS. The Second Gulf Registry of Acute Coronary Events (Gulf RACE-2) is a multinational observational study of patients with ACS, which enrolled 3,059 patients. Of 3,059 patients with ACS, 22.2% were presented with MI as first presentation, the male gender accounts for the majority of the cases 680 (86.6%). Congestive heart failure (6.7% vs. 0.3%), valvular heart disease (1.4% vs. 0.1%), cerebrovascular accident or transient ischemic attack (6.5% vs. 2.3%) and chronic renal failure (3.1% vs. 0.6%) were determined in both groups with superiority among patients with prior MI vs. no prior MI. Covariates such as smoking and certain chronic diseases (hypertension and hyperlipidemia) were also determined. In-hospital events and short and long-term prognosis was determined in both groups. Infarction or reinfection events were more among prior MI group (6.7% vs. 2.5%), recurrent Ischemia (27.1% vs. 15.7%) and congestive heart failure (20.2% vs. 11.8%). In-hospital mortality rate was significantly higher in patients with prior MI (9.4% vs. 6.0%) compared to patients with no prior MI (all  $P < 0.001$ ). Comorbidities associated with the ACS were more common among patients with prior MI than patients with no prior MI. In-hospital events were determined in both groups with higher rate among patient with prior MI. Prior MI patients showed significantly higher in-hospital mortality compared to patients with no prior MI.

### Biography

Abdulaziz U Joury is 22 years old medical student at King Saud University, Riyadh, Saudi Arabia. He is interested in cardiology and cardiac sciences. Trained at numerous hospitals. He represents his country nationally and internationally on several occasions. Held several classes and workshops covering medical field. Coordinated numerous campaigns and participating in number of researches.

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