

3<sup>rd</sup> Annual Congress & Medicare Expo on  
**PRIMARY HEALTHCARE, CLINICAL &  
MEDICAL CASE REPORTS**

April 17-19, 2017 Dubai, UAE

**Ongoing statin therapy during hospitalization for acute myocardial infarction: Learning for general practitioners and cardiologists**

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**Background & Objectives:** Patients with high cardiovascular risk should receive statin drugs as primary prevention of cardiovascular events according to current guidelines. This study aimed to determine the prevalence of AMI patients on statin treatment at hospitalization. The prevalence of statin treatment among AMI patients with known diabetes, known angina pectoris and previous AMI were studied separately. We also investigated blood lipids upon admission of patients with AMI in relation to national guidelines of recommended levels of lipids.

**Methods:** Consecutive patients (n=771)  $\leq$  80 years of age hospitalized for AMI during the period 2005-2012 were included in the study. ECG and biomarkers according to criteria recommended by the European Society of Cardiology (ESC) were used to diagnose AMI. Blood lipids and blood pressure were taken when patients were enrolled in the study at admission. Previous myocardial infarction, angina, stroke, diabetes, smoking habits and hypertension were diagnosed by self-reports verified by medical records.

**Main Results:** More than half of the statin treated had a LDL cholesterol level below the recommended level 2.5 mmol/L. LDL cholesterol level is 1.0 mmol/L lower among statin-treated than non-statin treated. 30% of diabetics, 22% of previous myocardial infarction patients and 31% of angina patients were not on statin therapy as primary prevention, when they were hospitalized for their first AMI. There is a large potential for improvement of statin therapy of patients at high risk for AMI. A study on why some AMI patients with known diabetes, known angina pectoris and previous AMI are not on statin treatment is needed.

**Biography**

Shabana G has completed her MD with honor from Debrecen Medical University, Hungary. She Qualified as Specialist in Family Medicine by Swedish National Board of Health and Welfare. She works as Cosmetic Medical Consultant and as SAVA Project Researcher (Survey of Atherosclerosis in Västmanland). She is an expert group member of Heart/Vascular and Gastrointestinal Västmanlands Medicine Committee.

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