

## **A Comparison of the Quality of Treatment/Management of Patients Presenting at the Emergency Department (ED) with Chest Pain with or without a Cardiologist as Part of the ED Staff**

Tsafir Or<sup>1</sup>, Aziz Darawshe<sup>2</sup>, Yuri Rabkin<sup>1,2</sup>, Alexander Feldman<sup>1,2</sup>, Yoav Turgeman<sup>1</sup>,  
Shaul Atar<sup>1</sup>

<sup>1</sup> Cardiology Department, ICCU, <sup>2</sup> Emergency, ED, Ha'Emek Medical Center, Afula, ISRAEL

**Background:** The concept of having a "chest pain (CP) unit" in the emergency department (ED) is evolving. The additional value of just having a cardiologist involved in the ED team, without a dedicated space or monitored beds (a "mobile CP unit") has not been evaluated yet.

**Methods:** We studied efficacy and diagnostic accuracy parameters in the management of 221 patients admitted to the ED for CP. We compared days with a cardiologist in the ED staff (Group A) and days when he was not present (Group B). All patients were followed in-hospital (if admitted) and at 30 days.

**Results:** Groups were similar in baseline characteristics including TIMI risk score. In patients in group A diagnostic and imaging studies were used significantly more often (10.4% vs. 2.2%, p=0.04). Pharmacological treatment according to ACC/AHA guidelines was used more often in group A (mainly heparins, p=0.048). Moreover, patients in group B with a discharge diagnosis of acute coronary syndrome less often received any treatment in the ED (63.1% vs. 37.5%, p=0.042). Admission rate to the hospital was higher in group B (74.7% vs. 66.4%, p=0.01). Patients in group B who were discharged from the ED used more medical resources after discharge (25.3% vs. 9.7%, p=0.002).

**Conclusions:** The addition of a cardiologist to the ED staff (a "mobile CP unit") is effective, saves resources and significantly improves treatment and diagnosis of patients with acute CP.