Acute Coronary Syndrome—Factors Causing Delayed Presentation at the Emergency Department
K K Ho,* MBBS, FRCS, S W Lee,** MBBS, FRCS, S B S Ooi,*** FAMS, MBBS, FRCS, F Lateef,**** MBBS, FRCS, S H Lim,**** FAMS, MBBS, FRCS, V Anantharaman, † FAMS, MBBS, FRCP

Abstract
Introduction: The aim of the study was to identify factors that contributed to delays in presentation of patients with acute coronary syndrome (ACS) at the Emergency Department (ED). Materials and Methods: The study population comprised patients presenting with the signs and symptoms of ACS at the ED of 5 government and restructured hospitals in Singapore from 1 April to 31 May 1999. These patients were interviewed with a structured questionnaire which explored patient demographic data, risk factors, prehospital symptomatology, timing of chest pain, patient response to chest pain and mode of transport to the hospital. Results: Three hundred and two patients who made 307 visits were recruited. More than three-quarters of the patients presented with central or left-sided chest pain. Forty-seven per cent had breathlessness and 42% had sweating. The commonest day of presentation was Monday. It took patients a median time of 2.1 hours from their worst chest pain to arrive at the ED. Past history of diabetes mellitus was associated with a longer delay in presentation. Most of the delay was due to patients awaiting symptom resolution. Forty per cent came by emergency ambulances to hospital. Conclusion: Our findings identified various patient characteristics that contributed to delay in presentation to hospital which should be addressed in future education campaigns.

Key words: Cardiac, Chest pain, Myocardial infarction

* Associate Consultant
**** Consultant
† Head
  Department of Emergency Medicine
  Singapore General Hospital
** Registrar
  Department of Accident & Emergency
  Changi General Hospital
*** Consultant
  Department of Emergency Medicine
  National University Hospital
Address for Reprints: Dr Ho Khoy Kheng, Department of Emergency Medicine, Singapore General Hospital, Outram Road, Singapore 169608.