Validation Pulmonary Embolus Severity Index Score Early Mortality Rate at 1, 3, 7 Days in Patients with a Diagnosis of Pulmonary Embolism

Authors : Nicholas Marinus Batt, Angus Radford, Khaled Saraya

Abstract : Pulmonary Embolus Severity Index (PESI) score is a well-validated decision-making score grading mortality rates (MR) in patients with a suspected or confirmed diagnosis of pulmonary embolism (PE) into 5 classes. Thirty and 90 days MR in class I and II are lower allowing the treatment of these patients as outpatients. In a London District General Hospital (DGH) with mixed ethnicity and high disease burden, we looked at MR at 1, 3, and 7 days of all PESI score classes. Our pilot study of 112 patients showed MR of 0% in class I, II, and III. The current study includes positive Computed Tomographic Scans (CT scans) for PE over the following three years (total of 555). MR was calculated for all PESI score classes at 1, 3 & 7 days. Thirty days MR was additionally calculated to validate the study. Our initial results so far are in line with our pilot studies. Further subgroup analysis accounting for the local co-morbidities and disease burden and its impact on the MR will be undertaken.

Keywords : Pulmonary Embolism (PE), Pulmonary Embolism Severity Index (PESI) score, mortality rate (MR), CT pulmonary artery

Conference Title : ICEM 2017 : International Conference on Emergency Medicine

Conference Location : Dubai, United Arab Emirates

Conference Dates : November 24-25, 2017