EuroSciCon
8th Edition of International Conference on
Case Reports
Case Reports 2018
May 28-29, 2018 | London, UK



Title: A new method to predict hospital mortality in severe community acquired pneumonia

Author (s) Name: Xin, Wang,
The 4th Center Hospital, Tianjin, China

Background & aims: The aim of this study is to develop a new method that is able to accurately predict the 28 day hospital mortality in patients with severe community acquired pneumonia (SCAP) at an early stage. **Methods:** Weselected 37,348 SCAP patients in ICU from173 hospitals during 2011.1−2013.12. The predictive factors for 28 day hospital mortality were evaluated retrospectively. All cases underwent intensive care, blood routine, blood biochemical tests and arterial blood gas analysis. Under the Classification and Regression Tree (CART) analysis, a new clinical scoring system was developed for early prediction in SCAP patients. The receiver-operating characteristic (ROC) curve was plotted to calculate the area under the receiver operating characteristic curve (AUC). **Results:** A novel clinicalmodel named CLCGHscoring system, including Serumcreatinine (Cr) ≥259.5 μmol/L, leukocyte (WBC)≥ 17.35 $\times 10^9$/L, C-reactive protein (CRP) ≥189.4 μg/mL, GCS ≤ 9 and serum$HCO3^-$ ≤ 17.65mmol/L, was carried out and each indexwas an independent factor for hospitalmortality in SCAP. In validation cohort, the AUC of the new scoring system was 0.889 for prediction of hospital mortality, which was similar to SOFA score 0.877, APACHEII score 0.864, and was better than the PSI score 0.761 and CURB-65 score 0.767. **Conclusions:** The new scoring systemCLCGH is an efficient, accurate and objective method to predicate the early hospital mortality among SCAP patients.

Figures if any (BW/Color):

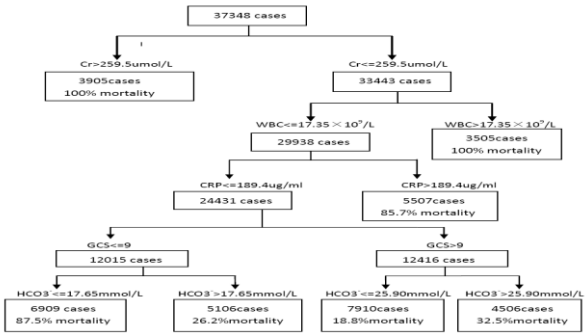


Figure 1 Classification and Regression Tree analysis of risk factors for mortality in 37348 cases

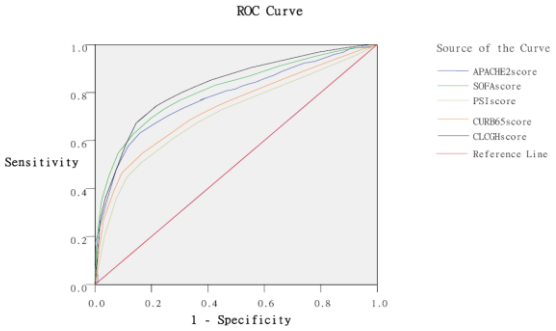


Figure 2 Receiver operator characteristic curves were carried out to evaluate the diagnostic accuracy of CLCGH,SOFA,CURB-65, PSI and APACHE II scoring systems

Biography

Xin Wang has completed his PhD &MD from Tianjin Medical University. He is the Head of the department of internal medicine, a premier research organization. He has published more than 5 papers in reputed journals and has been serving as an editorial board member of repute journals.

Presenting author details

Full name: Xin Wang
Contact number: 8613820933139
Email id: wx007146@163.com
Category: (Oral presentation/ Poster presentation) Oral presentation, pneumonia case report
Session name: 8th International Conference on Case Reports, 2018"
Research interest: pneumonia, internal medicine