Close

Web of Science [v.5.32] - WOS Export Transfer Service

Web of Science Page 1 (Records 1 -- 1) [1]

## Record 1 of 1

Title: Derivation of A New Bioscore for Predicting Mortality in Sepsis

Author(s): Shukeri, WFWM (Shukeri, W. F. W. M.); Md-Ralib, A (Md-Ralib, A.); Mat-Nor, MB (Mat-Nor, M. B.) Source: INTERNATIONAL MEDICAL JOURNAL MALAYSIA Volume: 18 Issue: 1 Pages: 81-87 Published: APR 2019 Times Cited in Web of Science Core Collection: 0 Total Times Cited: 0 Usage Count (Last 180 days): 0

Usage Count (Since 2013): 0 Cited Reference Count: 12

Abstract: Introduction: Currently, there is a lack of clinically feasible and reliable method for discriminating outcome in sepsis. We aimed to derive a new justically ill patients with sepsis using a combination of biomarkers and clinical indexes. Materials and Methods: This was a secondary analysis from a prospective study involving 159 patients with sepsis admitted to an intensive care unit (ICU). Data for key variables considered for possible inclusion in the score were collected, which included: age, sex, source of admission, comorbidities, microorganism, bacteraemia, site of infection, septic shock status, baseline Simplified Acute Physiological Score II, Sequential Organ Failure Assessment (SOFA) score (total and organ subscores), C-reactive protein, procalcitonin and interleukin-6 (IL-6). Approximate quintiles of each variable were given points as per the strength of their association with 30-day mortality. Results: In accordance with the statistical significance in the logistic regression analysis, the final score utilised candidate variables of age, central nervous system and liver SOFA sub-scores and IL-6. The bioscore predicted 30-day mortality with a very good performance [area under the receiver operating characteristic curve 0.814 (95% confidence interval 0.745-0.871, p < 0.0001)] in our sepsis cohort. A bioscore greater than 4 predicted 30-day mortality with 80.4% sensitivity, 69.9% specificity, 2.67 positive likelihood ratio and 0.28 negative likelihood ratio. As the score increased, so did mortality rate. Conclusion: A new bioscore combining age, central nervous system and liver SOFA sub-scores and IL-6 measured on ICU admission potentially improves prediction of mortality in sepsis. Further study is warranted to prospectively validate the clinical utility of this bioscore in risk-stratifying patients with suspected sepsis.

Accession Number: WOS:000465628000010

Language: English

Document Type: Article

Author Keywords: sepsis; biomarkers; critical care; mortality

KeyWords Plus: SERUM BILIRUBIN LEVELS; PROCALCITONIN; RISK

Addresses: [Shukeri, W. F. W. M.; Md-Ralib, A.; Mat-Nor, M. B.] Int Islamic Univ Malaysia, Kulliyyah Med, Dept Anaesthesiol & Intens Care, Kuantan 25200, Pahang, Malaysia.

[Shukeri, W. F. W. M.] Univ Sains Malaysia, Sch Med Sci, Dept Anaesthesiol & Intens Care, Kubang Kerian 16150, Kelantan, Malaysia.

Reprint Address: Mat-Nor, MB (reprint author), Int Islamic Univ Malaysia, Kulliyyah Med, Dept Anaesthesiol & Intens Care, Kuantan 25200, Pahang, Malaysia. E-mail Addresses: basri.matnor@gmail.com

Publisher: INT ISLAMIC UNIV MALAYSIA, KULLIYYAH MEDICINE

Publisher Address: JALAN SULTAN AHMAD SHAH, KUANTAN PAHAN, 25200, MALAYSIA

Web of Science Categories: Medicine, General & Internal

Research Areas: General & Internal Medicine

IDS Number: HU9QD

ISSN: 1823-4631

29-char Source Abbrev.: INT MED J MALAYS

ISO Source Abbrev.: Int. Med. J. Malays.

Source Item Page Count: 7

## Funding:

Grant Number Funding Agency International Islamic University Malaysia Research Initiative Grant RIGS 16-113-0277

This work was supported by the International Islamic University Malaysia Research Initiative Grant RIGS 16-113-0277

## Open Access: DOAJ Gold

Output Date: 2019-08-01					
Close	Web of Science Page 1 (Records 1 1)				Print
<b>Clarivate</b> Accelerating innovation	© 2019 Clarivate	Copyright notice	Terms of use	Privacy statement	Cookie policy
		Sign up for the Web of Science newsletter Follow us 🗴 f			

https://apps.webofknowledge.com/OutboundService.do?action=go&displayCitedRefs=true&displayTimesCited=true&displayUsageInfo=true&viewType... 1/1

Print