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Establishment of a scoring model based on MEWS for predicting the risk of intra-abdominal infection after gastric cancer surgery

Xu Xinyi and Xu Qin Nanjing Medical University, China

Objective: To establish a simple, effective and practical scoring model based on MEWS for predicting risk of Intra-Abdominal Infection (IAI) after gastric cancer surgery in order to identify and nurse high-risk patients.

Method: A retrospective study was conducted on 683 patients with gastric cancer surgery. The risk factors of IAI were screened by univariate analysis and multiple logistic regression analysis. The risk prediction model was constructed according to the beta value of each risk factor in the model. Hosmer-Lemeshow test and the Receiver Operating Characteristic (ROC) curve were used to evaluate the predictive compliance degree and discriminant validity of the model. The cut-off value of risk factors was determined according to ROC curve and Youden index and the classification criteria of IAI risk was determined based on the cut-off value and score.

Result: IAI rate was 9.22%. An established scoring model of IAI risk were postoperative WBC >9.95 (1 point), heart rate >98 (1 point), temperature > 37.5 °C (3 points), abdominal pain (3 points), abdominal distension (4 points). The validation indicated that the scoring system had higher predictive value (AUC=0.987, 95% CI: 0.948-0.999, P<0.05) and high goodness of fit (c2=1.152, P=0.997). The scoring table was further divided into low risk group (0~4 point), moderate risk group (5~7 point), high risk group (8~12 point).

Conclusion: The scoring model for predicting risk of IAI after gastric cancer surgery is effective and practical. However, a multicenter, large sample prospective study is needed for further validation.

## **Biography**

Xu Xinyi is a Postgraduate student studying in Nanjing Medical University, her major is Gastrointest	inal Cancer Care. She has published papers in reputed journals.
	912446750@gg.com

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