

# Prediction of 30-Day Mortality Using the Quick Pitt Bacteremia Score in Hospitalized Patients with *Klebsiella pneumoniae* Infection [Response to Letter]

Ching Su<sup>1</sup>, I-Ting Tsai<sup>1,2</sup>, Chung-Hsu Lai<sup>2,3</sup>, Kuo-Hsuan Lin<sup>1</sup>, Chia-Chi Chen<sup>2,4</sup>, Yin-Chou Hsu<sup>1,2,5-7</sup>

<sup>1</sup>Department of Emergency Medicine, E-Da Hospital, I-Shou University, Kaohsiung City, 82445, Taiwan; <sup>2</sup>School of Medicine, College of Medicine, I-Shou University, Kaohsiung, Taiwan; <sup>3</sup>Division of Infectious Diseases, Department of Internal Medicine, E-Da Hospital, I-Shou University, Kaohsiung City, 82445, Taiwan; <sup>4</sup>Department of Pathology, E-Da Hospital, I-Shou University, Kaohsiung City, 82445, Taiwan; <sup>5</sup>School of Chinese Medicine for Post Baccalaureate, I-Shou University, Kaohsiung, Taiwan; <sup>6</sup>School of Medicine for International Student, I-Shou University, Kaohsiung, Taiwan; <sup>7</sup>Graduate Institute of Clinical Medicine, College of Medicine, Kaohsiung Medical University, Kaohsiung, Taiwan

Correspondence: Yin-Chou Hsu, Department of Emergency Medicine, E-Da Hospital, No. 1, Yida Road, Jiao-Su Village, Yan-Chao District, Kaohsiung City, 82445, Taiwan, Tel +886-7-615-0011, Fax +886-7-615-5352, Email yinchou0406@gmail.com

## Dear editor

We thank Dr. Yang et al for their comments regarding our works.<sup>1</sup> The aim of our study was to investigate the prognostic role of qPitt in patients with *Klebsiella pneumoniae* infection. The 30-day mortality discriminative ability of qPitt was excellent by using receiver operating characteristic curve method. By using the Youden index, the optimal cutoff value of qPitt in our study was 2, with sensitivity 0.83, specificity 0.79, respectively. Our finding regarding qPitt cutoff value for best prognosis discrimination ability was consistent with previous studies.<sup>2,3</sup> Although not the aim of this study, we also provided the cutoff value of PBS for the reference: the PBS 4 had the best 30-day mortality prediction ability, with sensitivity 0.80, specificity 0.84, respectively. As Yang said, the cutoff value of PBS in our study was also in line with previous results.<sup>1,4</sup> Again we express our great appreciation for their comments and the opportunity to give our response.

## Disclosure

The authors report no conflicts of interest in this communication.

## References

1. Su C, Tsai IT, Lai CH, Lin KH, Chen CC, Hsu YC. Prediction of 30-day mortality using the quick Pitt bacteremia score in hospitalized patients with *Klebsiella pneumoniae* infection [letter]. *Infect Drug Resist*. 2023;16:4807–4815. doi:10.2147/IDR.S420569
2. Battle SE, Shuping M, Withers S, Justo JA, Bookstaver PB, Al-Hasan MN. Prediction of mortality in *Staphylococcus aureus* bloodstream infection using quick Pitt bacteremia score. *J Infect*. 2022;84(2):131–135. doi:10.1016/j.jinf.2021.12.002
3. Battle SE, Augustine MR, Watson CM, et al. Derivation of a quick Pitt bacteremia score to predict mortality in patients with gram-negative bloodstream infection. *Infection*. 2019;47(4):571–578. doi:10.1007/s15010-019-01277-7
4. Al-Hasan MN, Baddour LM. Resilience of the Pitt bacteremia score: 3 decades and counting. *Clin Infect Dis*. 2020;70(9):1834–1836. doi:10.1093/cid/ciz535

Dove Medical Press encourages responsible, free and frank academic debate. The content of the Infection and Drug Resistance 'letters to the editor' section does not necessarily represent the views of Dove Medical Press, its officers, agents, employees, related entities or the Infection and Drug Resistance editors. While all reasonable steps have been taken to confirm the content of each letter, Dove Medical Press accepts no liability in respect of the content of any letter, nor is it responsible for the content and accuracy of any letter to the editor.

## Infection and Drug Resistance

Dovepress

### Publish your work in this journal

Infection and Drug Resistance is an international, peer-reviewed open-access journal that focuses on the optimal treatment of infection (bacterial, fungal and viral) and the development and institution of preventive strategies to minimize the development and spread of resistance. The journal is specifically concerned with the epidemiology of antibiotic resistance and the mechanisms of resistance development and diffusion in both hospitals and the community. The manuscript management system is completely online and includes a very quick and fair peer-review system, which is all easy to use. Visit <http://www.dovepress.com/testimonials.php> to read real quotes from published authors.

Submit your manuscript here: <https://www.dovepress.com/infection-and-drug-resistance-journal>

<https://doi.org/10.2147/IDR.S434882>