



OPEN ACCESS

EDITED AND REVIEWED BY

Ming Li,
Hong Kong Polytechnic University,
Hong Kong SAR, China

*CORRESPONDENCE

Wenle Li
✉ drlee0910@163.com
Liangqun Rong
✉ rongliangqun@163.com
Xiu'e Wei
✉ wxeqq@163.com

†These authors have contributed equally to this work and share first authorship

RECEIVED 06 June 2023

ACCEPTED 21 June 2023

PUBLISHED 10 July 2023


CITATION

Wang K, Shi Q, Sun C, Liu W, Yau V, Xu C, Liu H, Sun C, Yin C, Wei X, Li W and Rong L (2023) Corrigendum: A machine learning model for visualization and dynamic clinical prediction of stroke recurrence in acute ischemic stroke patients: a real-world retrospective study. *Front. Neurosci.* 17:1235340. doi: 10.3389/fnins.2023.1235340

COPYRIGHT

© 2023 Wang, Shi, Sun, Liu, Yau, Xu, Liu, Sun, Yin, Wei, Li and Rong. This is an open-access article distributed under the terms of the [Creative Commons Attribution License \(CC BY\)](https://creativecommons.org/licenses/by/4.0/). The use, distribution or reproduction in other forums is permitted, provided the original author(s) and the copyright owner(s) are credited and that the original publication in this journal is cited, in accordance with accepted academic practice. No use, distribution or reproduction is permitted which does not comply with these terms.

Corrigendum: A machine learning model for visualization and dynamic clinical prediction of stroke recurrence in acute ischemic stroke patients: a real-world retrospective study

Kai Wang^{1,2†}, Qianqian Shi^{3†}, Chao Sun^{4†}, Wencai Liu^{5†}, Vicky Yau⁶, Chan Xu⁷, Haiyan Liu^{1,2}, Chenyu Sun², Chengliang Yin⁸, Xiu'e Wei^{1,2*}, Wenle Li ^{2,3*} and Liangqun Rong^{1,2*}

¹Department of Neurology, The Second Affiliated Hospital of Xuzhou Medical University, Xuzhou, Jiangsu, China, ²Key Laboratory of Neurological Diseases, The Second Affiliated Hospital of Xuzhou Medical University, Xuzhou, Jiangsu, China, ³State Key Laboratory of Molecular Vaccinology and Molecular Diagnostics & Center for Molecular Imaging and Translational Medicine, School of Public Health, Xiamen University, Xiamen, China, ⁴Department of Neurosurgery, The Second Affiliated Hospital of Soochow University, Suzhou, China, ⁵Department of Orthopaedic Surgery, The First Affiliated Hospital of Nanchang University, Nanchang, China, ⁶Division of Oral and Maxillofacial Surgery, Columbia University Irving Medical Center, New York, NY, United States, ⁷Department of Dermatology, Xianyang Central Hospital, Xianyang, China, ⁸Faculty of Medicine, Macau University of Science and Technology, Macau, China

KEYWORDS

stroke, recurrence, machine learning, SHAP, web calculator

A corrigendum on

[A machine learning model for visualization and dynamic clinical prediction of stroke recurrence in acute ischemic stroke patients: a real-world retrospective study](#)

by Wang, K., Shi, Q., Sun, C., Liu, W., Yau, V., Xu, C., Liu, H., Sun, C., Yin, C., Wei, X., Li, W., and Rong, L. (2023). *Front. Neurosci.* 17:1130831. doi: 10.3389/fnins.2023.1130831

In the published article, there was an error in the legend for [Figures 2–6](#) as published. Due to the unfamiliarity of some graduate students in our team with the submission system and the operation process of the writing software, the final version of the image was incorrectly uploaded as the image in the middle of the iteration of our machine learning algorithm model, not the final result of the model. The corrected legend appears below.

The authors apologize for these errors and state that this does not change the scientific conclusions of the article in any way. The original article has been updated.

Publisher's note

All claims expressed in this article are solely those of the authors and do not necessarily represent those of their affiliated organizations, or those of the publisher, the editors and the reviewers. Any product that may be evaluated in this article, or claim that may be made by its manufacturer, is not guaranteed or endorsed by the publisher.

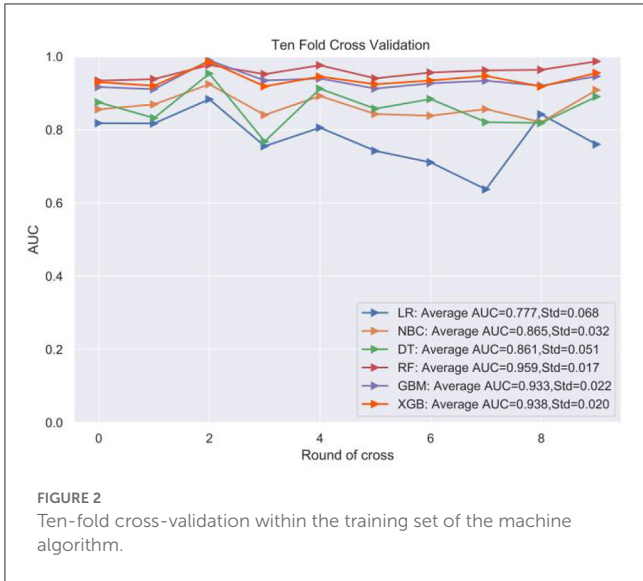


FIGURE 2
Ten-fold cross-validation within the training set of the machine algorithm.

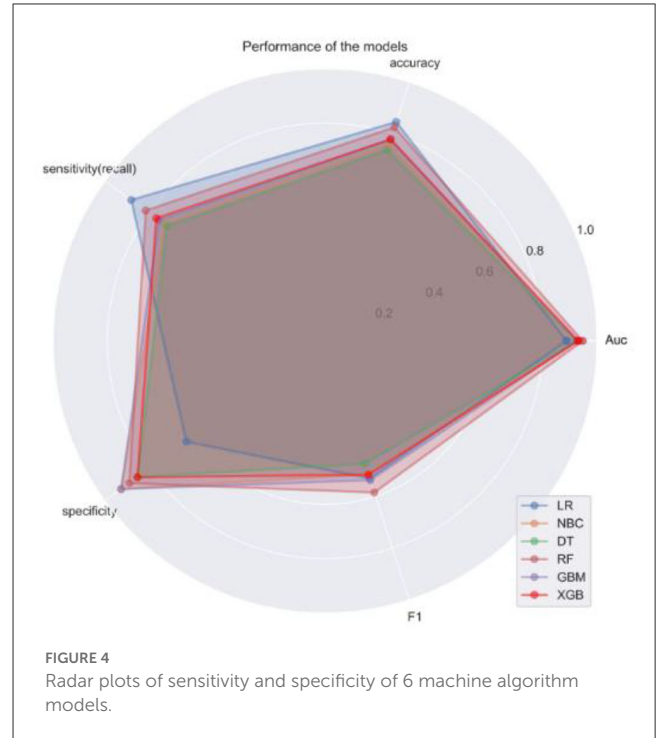


FIGURE 4
Radar plots of sensitivity and specificity of 6 machine algorithm models.

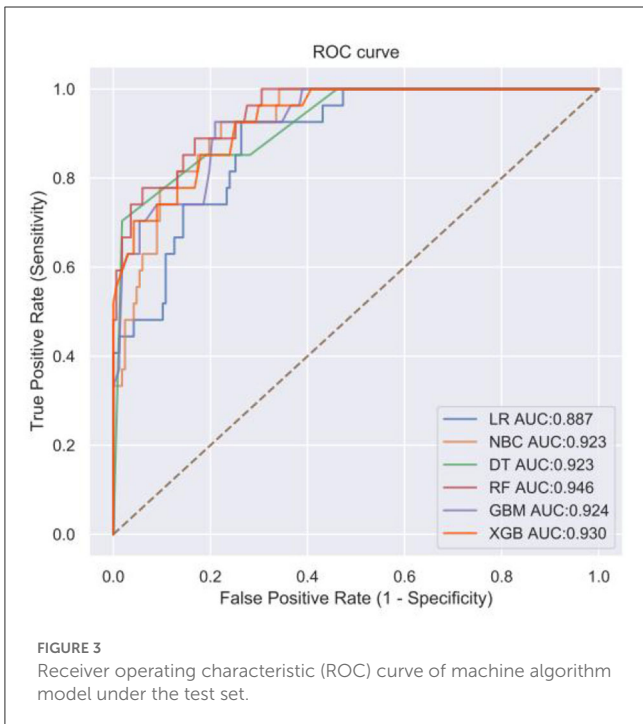


FIGURE 3
Receiver operating characteristic (ROC) curve of machine algorithm model under the test set.

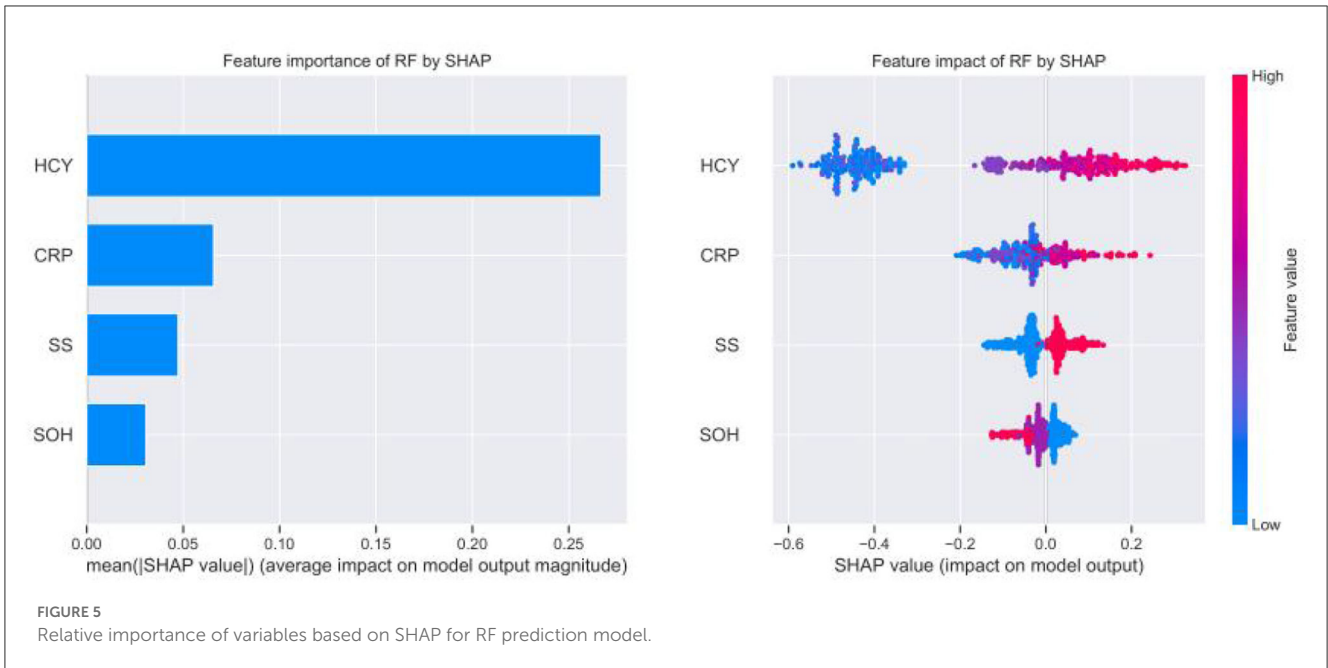


FIGURE 5 Relative importance of variables based on SHAP for RF prediction model.

Machine Learning Application for Predicting Recurrence of stroke

Side of hemisphere: HCY (μmol/L): - + CRP (mg/L): - +

Stroke severity:

Risk grouping: Low Risk

Probability: 23.1%

FIGURE 6 Online calculator for predicting stroke recurrence.