



## OPEN ACCESS

EDITED AND REVIEWED BY  
Hongye Yang,  
Wuhan University, China

\*CORRESPONDENCE  
Jiale Fu,  
✉ fullers@126.com

RECEIVED 25 April 2024  
ACCEPTED 02 May 2024  
PUBLISHED 15 May 2024

## CITATION

Hu Y, Gao J, Huang X, Li Y, Chen Z, Zhan D, Sano H, Carvalho RM and Fu J (2024), Corrigendum: The possibility of clinical bonding between metal/ceramic brackets to zirconia: *in vitro* study. *Front. Bioeng. Biotechnol.* 12:1423030. doi: 10.3389/fbioe.2024.1423030

## COPYRIGHT

© 2024 Hu, Gao, Huang, Li, Chen, Zhan, Sano, Carvalho and Fu. 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: The possibility of clinical bonding between metal/ceramic brackets to zirconia: *in vitro* study

Yichun Hu<sup>1</sup>, Jiayang Gao<sup>1</sup>, Xinyue Huang<sup>1</sup>, Yutong Li<sup>1</sup>, Ziyi Chen<sup>1</sup>, Desong Zhan<sup>2</sup>, Hidehiko Sano<sup>3</sup>, Ricardo M. Carvalho<sup>4</sup> and Jiale Fu<sup>2\*</sup>

<sup>1</sup>School and Hospital of Stomatology, China Medical University, Shenyang, China, <sup>2</sup>Department of Dental Materials Science, The Second Department of Prosthodontics, School and Hospital of Stomatology, China Medical University, Shenyang, China, <sup>3</sup>Department of Restorative Dentistry, Division of Oral Health Science, Faculty of Dental Medicine, Hokkaido University, Sapporo, Japan, <sup>4</sup>Department of Oral Biological and Medical Sciences, Division of Biomaterials, Faculty of Dentistry, University of British Columbia, Vancouver, BC, Canada

## KEYWORDS

shear bond strength (SBS), ceramic bracket, zirconia, resin cement, metal bracket, storage condition

## A Corrigendum on

[The possibility of clinical bonding between metal/ceramic brackets to zirconia: \*in vitro\* study](#)

by Hu Y, Gao J, Huang X, Li Y, Chen Z, Zhan D, Sano H, Carvalho RM and Fu J (2024). *Front. Bioeng. Biotechnol.* 12:1354241. doi: 10.3389/fbioe.2024.1354241

In the published article, there was an error. A sentence was included which inaccurately describes **Figures 3 and 4**.

A correction has been made to **3.2 Failure modes**, Paragraph 2. This sentence previously stated:

“For ceramic brackets under both conditions, XT showed a tendency toward E in ARI scores, while SBPM shifted toward C after thermocycling. Other groups displayed varied tendencies across scores.”

The corrected sentence appears below:

“For ceramic brackets under both conditions, XT showed a tendency toward E in ARI scores, while GMP and SBPM exhibited a notable increase in A and a decrease to 0 in C after thermocycling.”

The authors apologize for this error 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.