

LETTER TO THE EDITOR

Open Access



Response to comments on: Comparison of suprapatellar versus infrapatellar approaches of intramedullary nailing for distal tibia fractures

Yao Lu^{1,2}, Gen Wang³, Bin Hu⁴, Cheng Ren¹, Liang Sun¹, Zhimeng Wang¹, Changjun He⁵, Hanzhong Xue¹, Zhong Li¹, Kun Zhang¹, Teng Ma^{6,7*} and Qian Wang^{8*}

Thanks very much for your interest in the article “Comparison of suprapatellar versus infrapatellar approaches of intramedullary nailing for distal tibia fractures” [1]. We agree with Dr. Lu’s opinion that the description of the ideal starting point and Fig. 2B was not matched in our manuscript. In order to strength our statement, we provided a more rigorous Figure to match our opinion that the ideal starting point for tibial nailing of the SP approach is in the intersection of tibial midline and tibial plateau articular surface. As demonstrated by Bible et al. [2], twin peaks anteroposterior position (AP) images is safe for a starting point according to tibia-based referencing for proximal tibia radiographs. Too lateral a start can cause varus, in the tibia fractures, whereas too medial a starting point can create valgus [2]. Therefore, we recommend the ideal enter point as being “in the intersection of tibial midline and tibial plateau articular surface” at AP image and at the anterior edge of the tibial plateau on the lateral view. The ideal starting point in Fig. 2B we provided is slightly lower. We now correct Fig. 2B to provide a more accurate lateral starting point.

Replaced Figure 2B Starting point under fluoroscopic guidance



Acknowledgements

None.

Authors’ contributions

The authors read and approved the final manuscript.

Funding

None.

Availability of data and materials

Not applicable.

Ethics approval and consent to participate

Not applicable.

Consent for publication

Not applicable.

Competing interests

The authors declare no competing interests.

* Correspondence: gukemt@163.com; tianyunqilai@163.com

⁶Department of Orthopaedic Surgery, HongHui Hospital, Xi’an Jiaotong University, 555 Youyi East Road, Xi’an 710054, Shaan’xi Province, China

⁸Department of Orthopaedic Surgery, HongHui Hospital, Xi’an Jiaotong University, 555 Youyi East Road, Xi’an 710054, Shaan’xi Province, China

Full list of author information is available at the end of the article



© The Author(s). 2021 **Open Access** This article is licensed under a Creative Commons Attribution 4.0 International License, which permits use, sharing, adaptation, distribution and reproduction in any medium or format, as long as you give appropriate credit to the original author(s) and the source, provide a link to the Creative Commons licence, and indicate if changes were made. The images or other third party material in this article are included in the article's Creative Commons licence, unless indicated otherwise in a credit line to the material. If material is not included in the article's Creative Commons licence and your intended use is not permitted by statutory regulation or exceeds the permitted use, you will need to obtain permission directly from the copyright holder. To view a copy of this licence, visit <http://creativecommons.org/licenses/by/4.0/>. The Creative Commons Public Domain Dedication waiver (<http://creativecommons.org/publicdomain/zero/1.0/>) applies to the data made available in this article, unless otherwise stated in a credit line to the data.

Author details

¹Department of Orthopaedic Surgery, HongHui Hospital, Xi'an Jiaotong University, 555 Youyi East Road, Xi'an 710054, Shaan'xi Province, China. ²Bioinspired Engineering and Biomechanics Center (BEBEC), School of Life Science and Technology, Xi'an Jiaotong University, Xi'an 710049, China. ³Orthopaedics Institute of Chinese PLA, 80th Hospital, 3770 Beigongxijie, Weifang, Shandong Province, China. ⁴Department of Hematology, Xi'an Gao Xin Hospital, Xi'an 710054, Shaan'xi Province, China. ⁵Yan'an University, Yan'an 710000, Shaanxi, China. ⁶Department of Orthopaedic Surgery, HongHui Hospital, Xi'an Jiaotong University, 555 Youyi East Road, Xi'an 710054, Shaan'xi Province, China. ⁷Bioinspired Engineering and Biomechanics Center (BEBEC), School of Life Science and Technology, Xi'an Jiaotong University, Xi'an 710049, China. ⁸Department of Orthopaedic Surgery, HongHui Hospital, Xi'an Jiaotong University, 555 Youyi East Road, Xi'an 710054, Shaan'xi Province, China.

Received: 19 January 2021 Accepted: 25 January 2021

Published online: 05 February 2021

References

1. Lu Y, Wang G, Hu B, Ren C, Sun L, Wang Z, He C, Xue H, Li Z, Zhang K, et al. Comparison of suprapatellar versus infrapatellar approaches of intramedullary nailing for distal tibia fractures. *J Orthop Surg Res.* 2020;15(1):422.
2. Bible JE, Choxi AA, Dhulipala SC, Evans JM, Mir HR. Tibia-based referencing for standard proximal tibial radiographs during intramedullary nailing. *Am J Orthop (Belle Mead NJ).* 2013;42(11):E95–8.

Publisher's Note

Springer Nature remains neutral with regard to jurisdictional claims in published maps and institutional affiliations.

Ready to submit your research? Choose BMC and benefit from:

- fast, convenient online submission
- thorough peer review by experienced researchers in your field
- rapid publication on acceptance
- support for research data, including large and complex data types
- gold Open Access which fosters wider collaboration and increased citations
- maximum visibility for your research: over 100M website views per year

At BMC, research is always in progress.

Learn more biomedcentral.com/submissions

