



# Analyses of fracture line distribution in intra-articular distal radius fractures: future directions

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Dear Editor-in-Chief

I read with great interest the article “Analyses of fracture line distribution in intra-articular distal radius fractures” by Xin Zhang et al. The authors describe how to achieve the intra-articular fragment line in order to address the surgical management.

The authors evaluated retrospectively 40 patients with distal radius fractures, after TC scan pre-operative examination. They identified five types of common fractures pattern.

Figure 3 shows, with a very impressive manner, the frequency of fracture occurrence.

In the description of materials and methods, the authors do not describe the type of trauma. This detail could be really important, especially if one of the aims was to choose the surgical approach for each types of fractures [1].

In a recent paper, Biondi et al. [2] reported the experience in the management of marginal distal radius fractures. They analysis deepen the wrist position at the time of injuries.

So, the data reported in both articles could be analysed together, in fact the reported T line could be easily explained with a “throttle” position. This in the typical position maintained in the motorcycle accident, at the time of decreasing speed during the deceleration, just before the impact. In fact the carpal bones are slightly flex and the first carpal row could impact on the dorsal portion of the radius.

I encourage the authors to consider the different line fracture as the consequent of different carpus position. Combining both information, probably, could realise a real compete approach to guide the surgeon during the choice of surgical

approach and the fragment specific bone fixation. Hopefully, to whom this procedure is beneficial should be determined in future studies.

**Author contributions** A single author identified the significance and wrote the manuscript.

## Compliance with ethical standards

**Conflict of interest** The author declares that he has no conflict of interest.

**Informed consent** Not needed.

**Patient anonymity** Not applicable.

## References

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2. Keller M, Merenghi L, Gabl M, Lauri G, Biondi M (2018) Hook plate for volar rim fractures of the distal radius: review of the first 23 cases and focus on dorsal radiocarpal dislocation. *J Wrist Surg.* <https://doi.org/10.1055/s-0038-1667306>

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