Reply to Letter to the Editor: “A Randomised Clinical Trial to Compare Coaxial and Noncoaxial Techniques in Percutaneous Core Needle Biopsy of Renal Parenchyma”

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To the Editor,

We thank the investigators for their interest in our article [1] and appreciate the opportunity to address their comments.

Their experience was in line of the results of our study regarding the advantages of coaxial versus noncoaxial renal biopsy. However, they use coaxial renal biopsy technique with some refinements. An oblique trajectory toward the lower pole of kidney is used in both methods. The main difference was whether to put the coaxial needle just outside the renal cortex or to insert it into the renal cortex. To be honest, we had been performing renal biopsy using the latter technique in our everyday practice as well; however, because of a lack of adequate glomerular profile, especially in some of our patients with a small size kidney and a hyperechoic parenchyma, we applied some technical refinements as mentioned in our study. The advantages of putting the introducing needle just outside the renal cortex will be as follows: Firstly, a part of renal cortex, measuring at least 1–2 cm in its diameter will not be missed. So, a higher obtained glomerular profile will be expected in this method. This is of more importance in patients with a thinner renal parenchyma. Secondly, a different portion of renal parenchyma will be targeted with each respiration.

Thus, the likelihood of a higher glomerular profile may be increased even more. Thirdly, the risk of entrance of biopsy needle into the renal hilum and damage to the vascular structures may be decreased. Fourthly, the possibility of injecting gelatin sponge into the coaxial needle is still preserved in case of hemorrhagic complications. Finally, future studies are warranted to compare the two coaxial techniques of renal biopsy in complication rates and mean glomerular profile.

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Compliance with Ethical Standards

Conflict of interest The authors declare that they have no conflict of interests.

Reference

1. Babaei Jandaghi A, Lebadly M, Zamani AA, Heidarzadeh A, Monfared A, Pourghorban R. A randomised clinical trial to compare coaxial and noncoaxial techniques in percutaneous core needle biopsy of renal parenchyma. *Cardiovasc Interv Radiol*. 2017;40:106–11. doi:[10.1007/s00270-016-1466-3](https://doi.org/10.1007/s00270-016-1466-3).

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