

Peer Review File

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Reviewer A

In the present original article, the authors reported narrative review focused on the different methods to identify the ISP during pulmonary segmentectomy. This article is an accessible review of ISP identification methods, including the latest findings from a very recently published paper. If possible, a table with pros and cons for each method would be more helpful for the reader to understand.

Answer: Done (Table 1)

Reviewer B

The author submitted an interesting narrative review of surgical techniques developed to identify the intersegmental plane during mini-invasive segmentectomy.

This work allows a quick and critical overview of the different techniques available in the field and we have to congratulate authors for their concision.

I have only minor comments:

1/ The article is short, which in my opinion is one of its qualities, but I would suggest adding to it if possible, a table classifying the literature according to the different techniques described. it would be very useful to the reader

Answer: Done (Table 1)

2/ It seems important to me to emphasize that the technique of spotting the intersegmental plane alone cannot "improve oncological quality". In reality, it is the preoperative planning carried out by 3D for example and the margin that we choose to accept as recalled in the discussion that determines the oncological quality. For me, the role of locating the intersegmental plan is to approach the preoperative planning as closely as possible during the operation.

Our group demonstrate how 3D software can differently delineate the intersegmental plane according to the bronchus, vein or artery. It will therefore be important to adapt intraoperative technique to the planning carried out.

Sarsam M, Glorion M, de Wolf J, Cassiano F, Puyo P, Sage E, Chapelier A. The role of three-dimensional reconstructions in understanding the intersegmental plane: an anatomical study of segment 6. *Eur J Cardiothorac Surg*. 2020 Oct 1;58(4):763-767. doi: 10.1093/ejcts/ezaa123. PMID: 32359060.

Answer: We add ref (N° 5)

3/I would suggest an other related papers which tried to evaluate the interest of arterial demarcation by ICG.

Mehta M, Patel YS, Yasufuku K, Waddell TK, Shargall Y, Fahim C, Hanna WC. Near-infrared mapping with indocyanine green is associated with an increase in oncological margin length in minimally invasive segmentectomy. *J Thorac Cardiovasc Surg.* 2019 May;157(5):2029-2035. doi: 10.1016/j.jtcvs.2018.12.099. Epub 2019 Jan 21. PMID: 30803778.

Answer: we add ref and their results in the “arterial demarcation” paragraph

Reviewer C

The recent good results of clinical trials of segmental resection for lung cancer in AATS have been reported, and it is expected that segmental resection will become more widespread worldwide in the near future. This paper reviews the identification method between the segments. It's a well-written review that covers most of the current methods. It may be helpful to have some photos (especially ICG) that identifies the areas.

Answer: we add a figure with ICG
