

Point by Point Response

Reviewed by 02573214: **No comments**

Reviewed by 02537190: **No comments**

Reviewer 00183658:

Comments. The article is aimed to discuss the current limitations, the future potential of magnetic anchor guidance systems-endoscopic submucosal dissection and the developments needed for adoption of this technology. The title is “Magnetic Anchor Guidance for Endoscopic Submucosal Dissection and Other Endoscopic Procedures”. 1. Please add more details of the dis-advantages of this technique. 2. What are the new knowledges from this study? 3. The clinical application of the study is very important. Please also recommend the readers “How to apply this knowledge for routine clinical practice?”

Response:

Thank you for the comments, we appreciate the critical feedback.

1. As mentioned in the manuscript, there are several disadvantages of this technique, most important of which is diminished magnetic strength with distance and how differing abdominal wall thickness and air insufflation can worsen this phenomenon. The disadvantages are discussed in detail on pages 12-13 under the heading “Limitations of MAG-ESD.” They are then summarized in the final paragraph of the manuscript. These limitations also include the sheer size of the magnets, the high cost of the magnets themselves, magnet-magnet

interference, and finally the need for improved precision. Furthermore, details regarding the disadvantages of electromagnets (need for external power source and wired control system, generation of thermal energy) and permanent magnets (low resistance to corrosion) are discussed on pages 6 and 8, respectively. Therefore, all disadvantages of this technique and their details are mentioned throughout the manuscript and have been highlighted in the revised manuscript document.

2. As this is a review article and not a research study, there is no new knowledge in this manuscript. The purpose of this document is to review the technology, published work, limitations, and discuss the future potential of MAG-ESD.
3. We agree that the clinical application of MAG-ESD is definitely very important. However, there are still limitations before this technology can be widely applied to routine clinical practice. So, instead of discussing the daily utility of this technology, we reviewed the future potential of MAG-ESD on page 13 under the heading "The Future." Ultimately, MAG-ESD has the potential to act as a surgeon's "second hand" to make complex endoscopic procedures like ESD easier to perform but still needs some further development before being applied to routine clinical practice.