

Reviewer #1:

SPECIFIC COMMENTS TO AUTHORS

The authors used propensity score matching analysis to compare the efficacy of cold polypectomy and hot polypectomy in colorectal polyp patients. The study design was awesome, while there were a small question, that is the why only choose "size, morphology and polypectomy method" into propensity score matching analysis. Is those variables show any statistical difference in the current study or have special clinical significance?

Response:

Thank you for your comment.

It has been reported that the recurrence rates after a polypectomy increase with the size of the polyp, hence we chose size in the propensity score matching. In the same way, we chose the morphology because the morphological difference (sessile or flat) might affect the treatment method (CP or HP). For polypectomy devices, endoscopic resection by biopsy forceps has been reported to have a lower complete resection rate than snare.

There are reports that the recurrence rate was higher, depending on the location (cecum or not) and histological results (sessile serrated lesions have been reported to have a higher recurrence rate). In contrast, there were some reports that the location was not related to the recurrence rate, it is controversial. In addition, the number of sessile serrated lesions was very small in this study. As a consequence of the above, we considered the three factors of size, morphology, and polypectomy device to be important, and therefore selected these for propensity score matching.

We have amended the "MATERIALS AND METHODS" section (page 7, lines 140-145,147) to clarify the reasons for incorporating these three factors into the propensity score matching.

Comments from the Science editor

5 Issues raised:

(1) The terms 'cold snare polypectomy' and 'hot snare polypectomy' has been abbreviated in two different ways each (i.e. CP and CSP; and HP and HSP, respectively). Please commit to a single abbreviation for each throughout the manuscript;

Response:

Thank you for your comment. CP (cold polypectomy) is used as a general abbreviation that includes CSP (cold snare polypectomy) and CFP (cold forceps polypectomy). Similarly, HP (hot polypectomy) is used as a general abbreviation that includes HSP (hot snare polypectomy) (including EMR) and HFP (hot forceps polypectomy). Therefore, CP and CSP are different concepts and are thus abbreviated differently in the manuscript.