



## ENDO-AID CADe - Study

Artificial intelligence (AI) colonoscopy in affecting the rate of polyp detection in colonoscopy: A single centre retrospective study

## Study

A single center retrospective study was performed at Tin Shui Wai Hospital. PDR in CLN from 11/2020 to 03/2021 after the application of ENDO-AID (AI group) was compared to the cases from 12/2019 to 11/2020 before the application of the practice (non-AI group). Procedures were performed by a single endoscopist with experience in performing >3,000 CLN. Variables, such as patients' demographic data, indications, incidence of PDR, Boston Bowel Preparation Scale BBPS, withdrawal time, post CLN complication rate between the 2 groups, were compared. <sup>1</sup>

## Results

Total 234 patients were recruited. 115 patients (49.1%) were in the non-Al group while 119 patients (50.9%) were in the Al group. The mean age of the non-Al was higher than the Al group (65.3 vs 59.2, p< 0.001\*), otherwise, there was no significant difference in sex (p = 0.05), percentage of smokers (20.8% vs 27.7%, p = 0.22), past medical history of IBD (0 vs 0, p = 1.0), family history of colorectal cancer (9 vs 9, p = 0.94), indications for CLN (e.g. follow up CLN for polyp/ cancer, per-rectal bleeding, altered bowel habit etc. p > 0.05), BBPS (7.88 vs 8.04, p = 0.217), withdrawal time (7.65 min vs 7.48 min, p = 0.935), completion rate (95.6% vs 98.3%, p = 0.27) and complication rate (0% in both groups, p=1.0) between groups. <sup>1</sup>

In the contrary, PDR was significantly higher in the AI group than the non-AI group (64.7% vs 46.0%,  $p = 0.003^*$ ). Besides, adenoma detection rate was also found significantly higher in the AI group than the non-AI group (52.9% vs 37.4%,  $p = 0.017^*$ ).

<sup>1</sup> Wong YT, Tai TF, Wong KF, et al. The study on artificial intelligence (Al) colonoscopy in affecting the rate of polyp detection in colonoscopy: A single centre retrospective study. Surg Pract. 2022;1-5. doi:10.1111/1744-1633.12559.

\*p-value of 0.003, relative percentage change, \*\*p-value of 0.017, relative percentage change.



## read the full paper

As medical knowledge is constantly growing, technical modifications or changes of the product design, product specifications, accessories and service offerings may be required.



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