A RETROSPECTIVE PROPENSITY SCORE MATCHING STUDY OF THE COLORECTAL ADENOMA DETECTION ABILITY OF NEW-GENERATION ENDOSCOPIC INSTRUMENTS

Masashi Wakabayashi

UEG Week Copenhagen 2023 | Poster

Colorectal

October 15, 2023

A retrospective propensity-matched study of 960 patients found that new-generation colonoscopy equipment with 4K monitors significantly improved adenoma detection rate compared to previous-generation equipment (55.0% vs 49.0%, p=0.049).

KEY POINTS

- After propensity score matching for age, sex, colonoscopy purpose, observation mode, and endoscopist expertise, 480 patients in each group (X1 new-generation vs ELITE previous-generation equipment) were compared in a single-center retrospective study conducted between 2019-2023.
- Adenoma detection rate was significantly higher with new-generation equipment (55.0% vs 49.0%, p=0.049), as was mean number of adenomas per procedure (1.52±2.25 vs 1.13±1.77, p=0.004) and flat polyp detection rate (50.0% vs 39.4%, p<0.001).
- In subgroup analysis by imaging mode, narrow band imaging showed significantly higher adenoma yield with new-generation equipment (1.52±2.00 vs 1.20±1.83, p=0.047), while white light imaging showed significantly higher flat polyp detection (46.3% vs 30.2%, p=0.0012).
- The new-generation system comprised EVIS X1 CV1500 video processor, CF-XZ1200I/CF-EZ1500DI colonoscopes, and 4K monitors, compared to EVIS LUCERA ELITE CV290 processor, PCF-H290ZI/CF-HQ290Z colonoscopes, and Full HD monitors.

VIEW THIS CONTENT ON GUTFLIX

https://gutflix.eu/search/d/a7ecd884-743b-11ee-9b5c-0242ac140004

AI-generated summary

This summary was generated by an AI large language model based on the content transcript. It is for informational purposes only and should not be considered a substitute for clinical judgment. Always rely on your professional expertise and the full clinical context when making clinical decisions.