gutflix
GI learning, personalised

Summary

CADX SYSTEMS IN COLONOSCOPY: AN ANALYSIS OF TIME EFFICIENCY AND DIAGNOSTIC ACCURACY FOR COLORECTAL POLYP CHARACTERIZATION

Toshiyuki Baba

UEG Week Copenhagen 2023 | Poster

Colorectal

October 15, 2023

A single-center retrospective study found that computer-aided diagnosis (CADx) systems reduced polyp characterization time by non-expert endoscopists from 10.7 seconds to 5.3 seconds per lesion while improving diagnostic accuracy from 75% to 92.3%.

KEY POINTS

- Three non-expert endoscopists diagnosed 100 pathologically confirmed polyps using NBI images, first without assistance and then after four weeks with CADx system support that provided neoplastic or non-neoplastic predictions
- Mean diagnostic time per polyp decreased significantly with CADx assistance (5.3±3.6 sec vs 10.7±8.2 sec without CADx, $P < 0.001$)
- Diagnostic accuracy for differentiating neoplasms from non-neoplasms improved significantly with CADx (92.3% [95%CI 88.7-95.1] vs 75% [95%CI 69.7-79.8] without CADx, $P < 0.001$)
- Estimated time savings was 17 minutes per 100 colonoscopies, assuming 1.87 polyps per patient
- This study addresses the previously under-investigated time-saving aspect of CADx systems and may be relevant to endoscopists and healthcare administrators considering AI implementation for polyp characterization

VIEW THIS CONTENT ON GUTFLIX

https://gutflix.eu/search/d/b8ff9e68-743b-11ee-91b6-0242ac140004

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.