



ENDO-AID CADe – Study

Artificial intelligence improves adenoma detection rate during colonoscopy

Study

A single-centre retrospective study was performed at Waitematā Endoscopy, a private endoscopy centre in Auckland, New Zealand. An Olympus Endo-AID module was utilised for the first time by 13 experienced endoscopists. Outcomes from AIAC between 10 March 2021 to 23 April 2021 were compared to a subsequent non-AI conventional colonoscopy (CC) control group from 27/4/21 to 20/6/21.¹

Results

A total of 213 AIACs were compared with 213 CCs. Baseline patient age, gender, indication for procedure, bowel preparation scores and specialty of proceduralist (gastroenterologist or surgeon) were well matched ($p > 0.05$). The withdrawal time was significantly longer in the AIAC group compared to CC controls (15 vs 13 minutes; $p < 0.001$). The adenoma detection rate (ADR) was significantly higher in the AIAC group compared to CC group (47.9% vs 38.5%; odds ratio 1.59; 95% CI [1.05–2.41]; $p = 0.03$).

The overall polyp detection rate (PDR) was similar between groups (70% vs 70%; $p = 0.79$). Analysis by polyp size, location and other histology was not significant between groups.¹



24.4% increase
through ENDO-AID
CADe*

¹ Schauer, C., Chieng, M., Wang, M., et al. *Artificial Intelligence Improves Adenoma Detection Rate During Colonoscopy*. 2022 Sep 2; 135(1561). ISSN 1175-8716.

* p-value of 0.03, relative percentage change.