



Resource impact summary report

Resource impact

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Resource impact summary report

Guidance recommendations

See [Artificial intelligence \(AI\) technologies to help detect or characterise colorectal polyps](#).

NICE has recommended that 6 artificial intelligence (AI) technologies (see table 1) can be used in the NHS during the evidence generation period to help detect colorectal polyps. More research is needed on AI technologies to help characterise colorectal polyps.

Financial and capacity resource impact

The key drivers of resource impact are:

- The costs of procuring AI technologies and associated subscription and maintenance costs.
- Improvement in detection rates are not expected to be significant; however, a possible increase in the rate of detection of adenomatous polyps may lead to an increase in treatment and management following colonoscopy.
- Possible increased detection may reduce the need for more intensive healthcare resources later, such as for emergency presentations or more advanced stages of cancer.
- Increased procedure time during implementation while staff learn to use the technologies.

Table 1 shows the 6 AI technologies, their associated costs, and those that can be used in the NHS during the evidence generation period as options to help detect colorectal polyps during colonoscopy for people who do not have diagnosed inflammatory bowel disease (IBD) or Lynch syndrome. Prices may be negotiated locally. Table 1 includes which technologies offer computer-aided diagnosis (CADx) functionality; however, more research is needed on CADx use of these 4 AI technologies used to help characterise colorectal polyps.

Table 1 AI technology procurement and maintenance costs

Technology	List price	Computer-aided diagnosis (CADx) functionality
CAD EYE	Commercial in confidence	Yes
ENDO-AID	£29,916 (including VAT) First year maintenance is included in upfront cost; thereafter, £3,189 per year maintenance cost	No
EndoScreener	Subscription: £9,750 per year (excluding VAT), waived after 4 years	No
GI Genius	List price: £29,000 (excluding VAT) Subscription price: £1,500 per month (excluding VAT)	Yes
MAGENTIQ-COLO	Upfront purchase: €30,000, including 1 year of maintenance Subscription: €1,000 per month, including maintenance (excluding VAT)	Yes
CADDIE	Upfront purchase: £9,028 (excluding VAT) Annual subscription: £4,883 (excluding VAT) Annual maintenance: £2,243 (excluding VAT) Based on a 5-year contract	Yes

Eligible population for AI technologies

There are 173 adult NHS Joint Advisory Group (JAG) registered endoscopy services in England at the time of publication. The number of people who do not have diagnosed IBD or Lynch syndrome who have colonoscopies to detect colorectal polyps is uncertain.

Treatment options for the eligible population

The comparator treatment for the eligible population is colonoscopy without AI technologies. There may be an initial increase in procedure length, but a significant increase is not anticipated when using AI technologies.

Key information

Table 2 Key information

Specialty	Gastroenterology and colorectal surgery
Commissioner(s)	Integrated care boards
Provider(s)	NHS hospital trusts
Pathway position	Diagnostic

About this resource impact summary report

This resource impact summary report accompanies the [NICE health technology guidance on artificial intelligence \(AI\) technologies to help detect or characterise colorectal polyps](#) and should be read with it.

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