THE FUTURE IS NOW.

GI Genius™ intelligent endoscopy module

Powered by Artificial Intelligence
At Medtronic Gastrointestinal, we’re reimagining the future and the now — to transform healthcare.

Powered by AI, we deliver disruptive innovation to challenge unmet, clinical needs and improve lives.

Meet GI Genius™ intelligent endoscopy module. The first-to-market, deep learning, computer-aided polyp detection system.
AI ISN'T COMING, IT'S ALREADY HERE.

The GI Genius™ intelligent endoscopy module offers a transformative solution — to address the challenges of preventing colorectal cancer. By harnessing deep learning algorithms and real-time data, we empower physicians to detect and treat colorectal polyps through enhanced visualization.

“As the number one medical device company in the world we must leverage the AI revolution for our products, physicians, and most importantly our patients.”

Dori Peleg, Director Artificial Intelligence and Technical Fellow, Medtronic
SEAMLESS INTEGRATION. UNIVERSAL COMPATIBILITY.

1. Your existing endoscopy tower and high-definition endoscope is all you need to integrate with the GI Genius™ intelligent endoscopy module.

2. GI Genius™ intelligent endoscopy module can be easily integrated with existing brands of endoscopic processors (Olympus, Fujifilm, Pentax).

3. GI Genius™ intelligent endoscopy module simply connects to the existing endoscope, video processor, and display monitor.

4. Turn on GI Genius™ intelligent endoscopy module and immediately experience the benefits of AI, without changing any part of your procedure.
ARTIFICIAL INTELLIGENCE. REAL RESULTS.

GI Genius™ intelligent endoscopy module is your ever-vigilant second observer — designed to help you and your patients.

Second observers during colonoscopy can improve adenoma detection rate (ADR). Endoscopists with higher ADR during screening colonoscopy, more effectively reduce the risk of colorectal cancer. AI-assisted colonoscopy can increase ADR by identifying missed lesions and helping endoscopists detect the undetected.

- **+30%** relative increase in ADR
- **+50%** more likely to detect multiple polyps
- **+53%** more likely to detect polyps in the distal colon

GI Genius™ intelligent endoscopy module is trained to help automatically detect colorectal polyps regardless of shape, size, and morphology.¹

The GI Genius™ intelligent endoscopy module has a 99.7 percent sensitivity rate² and less than 1 percent false activations.²

It also performs real-time analysis; 82 percent faster than the endoscopist.²

**Performance**
- **99.7%²** sensitivity
- **82%²** faster polyp recognition than the endoscopist (RT)
- **<1%²** false activations

---


INCREASE ADR, TO DECREASE CANCER RISKS.

Your goal is to reduce your patients' risk of colorectal cancer by identifying potentially harmful lesions. Colonoscopy can be preventative against the development of colorectal cancer by early detection and resection of neoplastic lesions. However, the procedure is highly operator dependent and detection rates can vary greatly.¹

Demonstrated in a recent study, the GI Genius™ intelligent endoscopy module can help enhance ADR. Reducing your patients' risk of undetected polyps¹ without changing your procedure — and without changing your withdrawal time.²

1%¹ = 3%¹ increase in ADR  
1%¹ reduction in interval CRC risk

14.4%² 30%² 46%²
increase in absolute ADR  relative increase in ADR  increase in relative APC

INCREASE ADR, TO DECREASE CANCER RISKS.

Your goal is to reduce your patients' risk of colorectal cancer by identifying potentially harmful lesions. Colonoscopy can be preventative against the development of colorectal cancer by early detection and resection of neoplastic lesions. However, the procedure is highly operator dependent and detection rates can vary greatly.1

Demonstrated in a recent study, the GI Genius™ intelligent endoscopy module can help enhance ADR. Reducing your patients' risk of undetected polyps without changing your procedure—and without changing your withdrawal time.2

<table>
<thead>
<tr>
<th>Study findings</th>
</tr>
</thead>
<tbody>
<tr>
<td>A study of more than 300,000 colonoscopies performed by 136 gastroenterologists demonstrated that ADR ranged from 7.4 percent to 52.5 percent.1 Moreover, a study by Lee et al found there is a 12.4 percent2 reduction in mean detected polyps between morning and afternoon procedures.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>300,000 colonoscopies</th>
</tr>
</thead>
<tbody>
<tr>
<td>136 gastroenterologists</td>
</tr>
<tr>
<td>ADR ranged from 7.4%1 – 52.5%1</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Reduction in mean detected polyps between morning and afternoon procedures</th>
</tr>
</thead>
<tbody>
<tr>
<td>12.4%2</td>
</tr>
</tbody>
</table>

WE’LL STOP WHEN CRC DOES.

Built on an ever-growing dataset, GI Genius™ intelligent endoscopy module was trained and validated with white-light endoscopy videos. Designed to process colonoscopy images that may contain regions consistent with colorectal lesions like polyps, including those with flat, non-polypoid morphology. This dataset continues to grow, and with each update, GI Genius™ intelligent endoscopy module continues to learn.

GI Genius™ intelligent endoscopy module continues to set the standard.

ADVANCED PRECISION. ENHANCED PERFORMANCE.

GI Genius™ intelligent endoscopy module in action
DISCOVER THE POWER OF AI — TRANSFORM COLORECTAL CARE.

Contact your Medtronic GI representative to learn more.

Visit GI Genius™ website

Find a rep

Powered by Artificial Intelligence

Refer to IFU for more information on Indications, Contraindications and Risks.

© 2021 Medtronic. All rights reserved. Medtronic, Medtronic logo and Further, Together are trademarks of Medtronic.

US-DG-2000298