Colonoscopy simulator
Order code: **4135.7098000**

Information about product price on demand

Parameters

Quantitative unit	ks

The colonoscopy simulator from Invidia Medical is a realistic simulator for diagnostic and therapeutic procedures that faithfully replicates real-world environments and situations. Thanks to the "Surgery in the can" technology, students can review their work and evaluate individual actions, such as bleeding, excessive force, or complete removal of polyps. The simulator is compatible with real medical instruments, ensuring practical training that mimics clinical practice. It is an ideal educational tool for medical faculties, training centers, and hospitals.

Key Training Features

Diagnostic Colonoscopy - Trainees can practice essential diagnostic techniques, including:

- Colon Visualization – Navigating the colonoscope through the sigmoid, transverse, and ascending colon to identify normal structures

and landmarks.

- Pathology Identification – Detecting abnormalities such as:
    - Polyps (small and large)
    - Tumors and carcinomas
    - Inflammatory conditions (e.g., Crohn's disease)
    - Diverticula (colon wall pouches)
    - Stenosis (narrowing of the colon)
- Biopsy Techniques – Practicing tissue sample collection using biopsy forceps or other tools.

Therapeutic Procedures - The simulator also supports hands-on training in colonoscopy interventions, including:

- Polyp Removal:
    - Snare polypectomy (removal with a wire loop)
    - Cold forceps polypectomy (for small polyps)
    - Hot biopsy forceps (for polyps requiring cauterization)
- Tumor Resection: Training for the removal of tumors or abnormal growths.
- Hemostasis (Bleeding Control): Learning bleeding management techniques such as electrocautery (heat application) and clipping (closing bleeding vessels).
- Stent Placement: Practicing the insertion of stents to relieve obstructions caused by tumors or strictures.
- Stricture Dilation: Using balloon dilators to widen narrowed sections of the colon.

Endoscopic Skills Development - The simulator helps trainees improve essential colonoscopy techniques, including:

1. Scope Navigation: Maneuvering the colonoscope through the colon while avoiding excessive force or trauma.
2. Instrument Handling: Practicing the use of biopsy forceps, snares, and cautery tools.
3. Depth Perception & Spatial Awareness: Developing a sense of orientation for safer and more effective scope control.

Post-Procedure Evaluation - After training sessions, users can analyze their performance by reviewing:

- Polyp Removal Accuracy: Checking if polyps were fully removed.
- Tissue Damage: Assessing if excessive force or improper technique caused damage.
- Bleeding Control: Evaluating how well bleeding was managed during procedures.

Comprehensive Skill Development - The Colonoscopy Simulator is an essential tool for mastering:

1. Diagnostic visualization & pathology identification
2. Polyp & tumor removal
3. Biopsy techniques
4. Bleeding control (hemostasis)
5. Stent placement & stricture dilation
6. Scope navigation & instrument handling
7. Hand-eye coordination & spatial awareness
8. Pre-procedure setup & equipment assembly
9. Post-procedure analysis & performance feedback