Endock: Docking Station for Medical Instruments

An improved method of organization of medical instruments during procedures such as endoscopies and colonoscopies.

Technology ID
MON04-01

Category
Life Sciences/Medical devices

Authors
Jovanka Montanez

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Technology Overview

A medical technician at NYU has developed an organizer and method for retrievably securing medical equipment, such as cannulating spirechtometers, papillotomes, wire guided balloon dilation catheters etc., for use during endoscopy or colonoscopy procedures. The surgical tool organizer is suitably sized and shaped for secure placement on a work space (such as a mayo stand or endoscopy tower) during a medical procedure.

Stage of Development A working prototype of the organizer and has been created and adopted by other technicians at NYU with positive reviews.

Background

During medical procedures, the organization of medical equipment (such as medical instruments, supplies, etc.) can present various challenges. In some procedures, such as endoscopy and colonoscopy procedures, instruments may be set down with no support on a work space like a mayo stand or an endoscopy tower. This unsecured positioning may result in equipment falling off of the work space and onto the floor or into an open bag hanging off of the work space, requiring medical support staff to retrieve the item for further use during the procedure, affecting the sterility of the equipment.

The global endoscopy procedures estimated market was valued at 222.9 million procedures in 2021 and is expected to grow at a compound annual growth rate (CAGR) of 1.3% from 2022 to 2030. With the increasing number of procedures, the effective organization of medical instruments and scopes is crucial for improving ease of use, reducing delays and avoiding accidental contamination of the instruments.

Benefits

- Improved organization and handling of medical instruments
- Reduced clutter and confusion
- Useful in maintaining the sanitized condition of instrument
- Reduced delays in procedures

Applications

Organization of instruments and supplies during routine endoscopy and colonoscopy procedures.

IP Status

Provisional patent