

# 6 TOOLS

AND EQUIPMENT



## to Make Your Endoscopy Room Operate at Maximum Efficiency!

**First and foremost, the endoscopy room should provide a comfortable, safe environment for patients and staff.** Maintaining the patient's safety, privacy, and dignity while performing a successful procedure is of the utmost importance. The layout of the endoscopy room should allow for the efficient flow of patients, staff and supplies. Having the tools and equipment you need on hand is essential to ensure optimal efficiency, productivity, cost containment, and most importantly patient safety.

In the endoscopy room, there are many tools and equipment that help ensure a safe, successful procedure.

These tools and equipment include:

- Endoscopy Cart or Trolley
- Endoscope Cabinet
- Scope Specific to the Procedure
- Video Monitor
- Imaging Equipment
- Anesthetic Equipment and Medication
- Monitoring Equipment
- Sanitary Products

Let's take a look at each one of these essential pieces of equipment to better understand how they aid in keeping the procedure room running at maximum efficiency.



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# 1 ENDOSCOPY CARTS

- **Endoscopy carts or trolleys are vital in the endoscopy room.** They store all the supplies necessary to carry out a successful procedure while optimizing workflow and mobility. Endoscopy carts are typically designed to accommodate the most common equipment found in the procedure room and are organized in a way that allows medical personnel to easily access the tools needed throughout the procedure.

Total Scope's subsidiary company – Endocart® – is one of the few companies on the market that manufactures endoscopy carts. Designed by GI nurses, for GI nurses, these carts efficiently house endoscopy equipment, surgical instruments, and video and imaging equipment. Endocart® manufactures three fully customizable models – all offering a variety of storage options to fit your department's specific needs. All three models also offer mobility and greater efficiency, thus optimizing workflow in the procedure room. A motorized option is also available, allowing for greater mobility and ease of transportation.



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# 2 ENDOSCOPE CABINETS



- **Endoscopes must be properly stored while they are not in use – that is, after they have been cleaned and reprocessed. Endoscopy cabinets offer safe sanitary storage solutions.** These cabinets are typically designed to accommodate different scope lengths and sizes and protect reprocessed scopes from contamination, limiting the risk of bacteria entering the internal channels of the scope.

Some manufactures offer HEPA fans and drying options. Keeping your endoscopy equipment properly stored is key to ensuring a safe procedure.



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# 3 SCOPES



- **One of the main pieces of equipment in the endoscopy room is the endoscope.** The specific type of scope used during a procedure will vary depending on the area of the body that is being examined. Endoscopes typically have light and camera attachments so the doctor can view various sections of the digestive tract, esophagus, stomach, small intestine or large intestine.

These devices are delicate and require proper care and handling. All medical personnel should be updated regularly on care and maintenance techniques. Approximately 85% of all repairs are due to misuse, abuse or mishandling, so it's important to work with a repair company that provides training to your staff, in addition to servicing damaged scopes and cameras.

In conjunction with repair capabilities for all makes and models of flexible and rigid endoscopes, Total Scope offers on-site training as a benefit to all clients. Our well-trained technicians will visit your facility and conduct an in-service to educate all department personnel on best practices for maintenance, handling and disinfecting your equipment.



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# 4 VIDEO, IMAGING & LIGHT EQUIPMENT



Although the scope may be the main medical device needed during a procedure, there are other pieces of equipment that are as equally important. Such pieces include a video monitor, light source, and video processor.

Proper lighting in the room is also key to a successful procedure.

When the scope is inserted into the patient, the medical team needs a clear view of the internal areas of interest. The interaction of these three devices allows the doctor to illuminate these areas inside the body and view them in real time.

The overhead lighting is dimmed during the procedure to maximize the clarity of the images on screen. Additionally, the medical team is provided with individual spot lighting to facilitate accurate documentation and specimen identification. The proper video, imaging and lighting tools help to facilitate a safe, efficient, successful procedure.



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# 5 MEDICATION



○ **Endoscopic procedures are routinely performed with the use of intravenous sedation.** The endoscopy room should be equipped with the medication and equipment necessary to administer sedation and monitor the patient's vitals throughout the procedure. These sedatives or short acting anesthetics are commonly administered by an anesthesiologist or a certified RN anesthetist. The level of anesthesia required can vary from patient to patient and emergency medications must be on hand in the event of adverse events.

Monitoring equipment is required to assess the patient's vital signs, comfort level, clinical status and to detect any complications during the procedure.



# 6 SANITARY PRODUCTS AND PROTECTIVE EQUIPMENT



○ **Maintaining a sanitary environment for both patients and personnel is of the utmost importance.** There are numerous precautions regarding sanitation that should be observed in the endoscopy unit. Adhering to these precautions minimizes the risk of infection.

All exposed surfaces must be well sanitized with a bleach-containing disinfectant before and after all procedures. Washing your hands with soap before and after interacting with the patient is crucial to mitigate the spread of any infectious organisms. Personal protective equipment (PPE) such as gowns, gloves, masks, and eyewear, is also required in the endoscopy unit.

Additionally, if needles are used to administer medication, they must be properly disposed of in sharps containers. To avoid inadvertent needle sticks, do not recap needles prior to disposal. It is recommended that endoscopy suites use needleless systems whenever possible to avoid the risk of a sharps injury.

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# CONCLUSION

Having these tools and equipment in the endoscopy unit will help ensure a **safe, efficient, successful procedure**. It's also important to take care when handling all medical devices and to regularly inspect your tools and equipment to ensure that they are in good working order. If you outfit your endoscopy room with these essential tools and follow best safety practices, you are sure to provide a comfortable and safe environment that's conducive to the best possible outcome for your patients and staff.



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