HOW TO TEST & INSPECT
Laparoscopic Instruments

Featuring excerpts from the textbook:

Inspecting Surgical Instruments; An Illustrated Guide

By Rick Schultz
Chief Executive Officer
Author, Lecturer, Inventor

800-444-5644
www.spectrumintestinal.com
Laparoscopic Instruments

Laparoscopic Instruments are used to perform minimally invasive surgical procedures.

Advantages of Laparoscopic Surgery

- Smaller incision, resulting in shortened recovery time, reduced scarring, less pain.
- Shorter hospital stay, often performed as out-patient surgery.
- Reduced risk of hospital acquired infection (HAI) due to reduced exposure of internal organs to possible contaminants.

Contact Spectrum

800-444-5644
sales@spectrumsurgical.com
www.spectrumsurgical.com
4575 Hudson Drive
Stow, OH 44224-1725

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TIP: To test laparoscopic insulation, visually inspect the entire shaft for any nicks or cuts. Next, pull back on the insulation. If the insulation slides back, the instrument is in need of reinsulation.

Laparoscopic Insulation Tester
Available from Spectrum
Order # 70-1481

Laparoscopic Instrument Inspection, Testing, and Cleaning

Third Generation: Can be completely disassembled to allow proper cleaning.

Second Generation: With cleaning port.

First Generation: Very difficult to clean.

If space is present between collar and insulation, the instrument needs to be re-insulated.

Inspect for bioburden
Inspect for cracks and bioburden
Inspect shaft for nicks and cuts

Laparoscopic Grasper Inspection

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TIP: Laparoscopic tip protectors help protect valuable laparoscopic instruments.

Tip protectors are available in several sizes from Spectrum.

Order # LTP-5-800  5mm diameter, 0.75" length (20/pkg)
Order # LTP-5-168  5mm diameter, 1.68" length (20/pkg)
Order # LTP-10-800  10mm diameter, 0.75" length (20/pkg)
Order # LTP-10-225  10mm diameter, 2.25" length (20/pkg)
Order # LTP-VN-750  Verres Needle Protector, 0.75" length (50/pkg)
Laparoscopic Instrument Inspection, Testing, and Cleaning

To determine if the inner linkage is worn, stretched, or fatigued, wiggle the drive ring back and forth. If the jaw does not move, the linkage is damaged and is in need of repair. As the ring moves, the jaw should move as well.
HOW TO TEST & INSPECT: Laparoscopic Instruments

TIP: When cleaning any laparoscopic instrument shaft, the cleaning brush must enter and completely exit to properly clean.

Recommended cleaning brushes:

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<tr>
<th>Order #</th>
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TIP: When soaking laparoscopic instruments, soaking the instruments vertically allows fluid to enter at the distal tip and rise up. Fluid will seek its own level, and this, in conjunction with an enzymatic cleaner, will assist with the cleaning process.

To properly flush and irrigate laparoscopic instruments, connect syringe to irrigation port and with distal tip underwater, draw up water from cleaning sink. Force cleaning fluids in and out of shaft.
Laparoscopic Instrument Inspection, Testing, and Cleaning

To test sharpness of a standard laparoscopic scissor, blades should cut cleanly through one thickness of facial tissue. Blades should open and close smoothly and be free of nicks and burrs.

To test sharpness of a laparoscopic hook scissor, blades should cut cleanly through a standard, 1/4” wide rubber band. Blades should open and close smoothly and be free of nicks and burrs.

NEW BRUSH DESIGNS

Cleanables™ Instrument Brushes
Single-Ended

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<td>45-1510</td>
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Double-Trouble Cleanables™ Instrument Brushes - Double-Ended

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<td>45-2510</td>
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Reposables™ Instrument Brushes
Disposable brush tips with reusable 24” shaft

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<td>45-2400</td>
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Reposables™ Instrument Brush Kit
Disposable brush tips with reusable shaft

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<th>Order #</th>
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<td>45-2499</td>
<td>24” Reusable handle with disposable brush tips</td>
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Laparoscopic Scissor Testing & Inspection

- Be sure that the laparoscopic scissor is safe to handle/has been fully decontaminated.
- Learn to visually inspect the laparoscopic scissor.
- Open and close the laparoscopic scissor and evaluate proper action.
- Identify where cracks can occur.
- Identify where blood/bioburden can be found.
- Jaws should cut cleanly through a single thickness of facial tissue. (Spectrum Sharpness Standards Kit, Order # 2005STB).

Inspect tips and blades for burrs
Inspect both sides of hinge for cracks and blood/bioburden
Inspect insulation for nicks & cuts. If gap is present instrument needs to be reinsulated
Action should be smooth
Laparoscopic Grasper Testing & Inspection

- Be sure that the laparoscopic grasper is safe to handle/has been fully decontaminated.
- Learn to visually inspect the laparoscopic grasper.
- Open and close the laparoscopic grasper and evaluate proper action.
- Identify where cracks can occur.
- Learn how to properly detect damaged or loose insulation.

Inspect both sides of hinge for cracks and blood/bioburden

Inspect insulation for nicks & cuts. If gap is present, instrument needs to be reinsulated

Inspect teeth and jaws for blood/bioburden

Action should be smooth

Surgical Instrument Inspection Magnifier
- 2.5x magnification for thorough instrument inspection
- Bright 2-stage LED light
- Durable aluminum body
- Large 55mm lens

Available from Spectrum
Order # 10-0225

Spectra-Mat™ Instrument Inspection Mat
(Patent Pending)
Order # 10-0224

Instrument Inspection & Identification Flash Cards
Order # 10-0227
HOW TO TEST & INSPECT: Laparoscopic Instruments

FACT: This Can Be Prevented.
Make your patients safer!

Actual blood/bioburden found inside an atraumatic lap grasper

This lap grasper was sent in for linkage repair. Upon evaluation, damaged insulation was removed which revealed trapped bioburden. The instrument was photographed to help provide education to the customer.

Please contact a Spectrum Customer Care Representative today:

800-444-5644
www.spectrumsurgical.com

Send instruments for repair to:
Spectrum Surgical Instruments Corp.
Attn: Repair Center
4575 Hudson Drive
Stow, OH 44224-1725

We Make Patients Safer™