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Diagnostic Laparoscopy Patient Information from SAGES

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DIAGNOSTIC LAPAROSCOPY

patient information from your surgeon & SAGES

Diagnostic Laparoscopy

About conventional colon surgery:

Patients may be referred to surgeons because of an undiagnosed abdominal problem. If your surgeon has recommended a diagnostic laparoscopy, this brochure will:

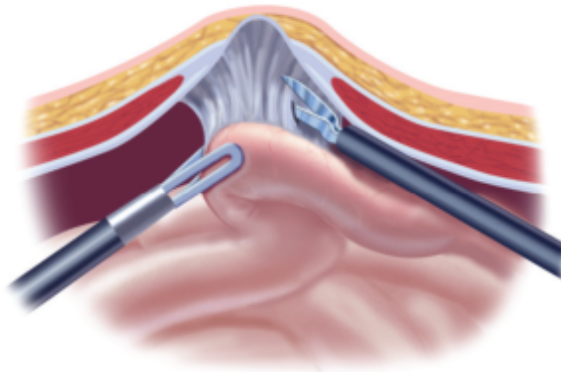
- Help you understand what laparoscopy is.
- Describe how laparoscopy helps diagnose a problem.
- Explain what complications can occur with the procedure.

What is Diagnostic Laparoscopy?

A laparoscope is a telescope designed for medical use. It is connected to a high intensity light and a high-resolution monitor. In order for the surgeon to see inside your abdomen, a hollow tube (port) is placed through your abdominal wall, and the laparoscope is inserted into the port. The image of the inside of your abdomen is then seen on the monitor. In most cases, this procedure (operation) will be able to diagnose or help discover what the abdominal problem is.

Why is Diagnostic Laparoscopy Performed?

1. **Abdominal pain.**



Laparoscopy has a role in the diagnosis of both acute and chronic abdominal pain. There are many causes of abdominal pain. Some of these causes include appendicitis, adhesions or intra-abdominal scar tissue, pelvic infections, endometriosis, abdominal bleeding and, less frequently, cancer. It is used in patients with irritable bowel disease to exclude other causes of abdominal pain. Surgeons can often diagnose the cause of the abdominal pain and, during the same procedure, correct the problem.

2. **Abdominal mass.**

A patient may have a lump (mass or tumor), which can be felt by the doctor, the patient, or seen on an X-ray. Most masses require a definitive diagnosis before appropriate therapy or treatment can be recommended. Laparoscopy is one of the techniques available to your physician to look directly at the mass and obtain tissue to discover the diagnosis.

3. **Ascites.**

The presence of fluid in the abdominal cavity is called ascites. Sometimes the cause of this fluid accumulation cannot be found without looking into the abdominal cavity, which can often be accomplished with laparoscopy.

4. **Liver disease.**

Non-invasive imaging techniques such as ultrasound, CT scan (computed tomography) and MRI (magnetic resonance imaging) may discover a mass inside or on the surface of the liver. If non-invasive imaging cannot give your physician enough information, a liver biopsy may be needed to establish the diagnosis. Diagnostic laparoscopy is one of the safest and most accurate ways to obtain tissue for diagnosis. In other words, it is an accurate way to collect a biopsy to sample the liver or mass without actually opening the abdomen.

5. **“Second look” procedure or cancer staging.**

Your doctor may need information regarding the status of a previously treated disease, such as cancer. This may occur after treatment with some forms of chemotherapy or before more chemotherapy is started. Also, information may be provided by diagnostic laparoscopy before planning a formal exploration of the abdomen, chemotherapy or radiation therapy.

6. **Other.**

There are other reasons to undergo a diagnostic laparoscopy, which cannot all be listed here. This should be reviewed and discussed with your surgeon.

Preparation for the Procedure

What Tests are Necessary Before Laparoscopy?

Ultrasound may be ordered by your doctor as a non-invasive diagnostic test. In many cases, information is provided which will allow your surgeon to have a better understanding of the problem inside your abdomen. This test is not painful, is very safe, and can improve the effectiveness of the diagnostic laparoscopy.

CT Scan is an X-ray that uses computers to visualize the intra-abdominal contents. In certain circumstances, it is accurate in making the diagnosis of abdominal disease. It will allow your surgeon to have a “road map” of the inside of your abdomen. A radiologist may use a CT scan to place a needle inside your abdomen. This is known as a CT guided needle biopsy. This will often be done before a diagnostic laparoscopy to decide if laparoscopy is appropriate for your condition. A MRI uses magnets and computers to view the inside of the abdominal cavity. It is not required for most abdominal problems, but may be necessary for some.

Routine blood test analysis, urinalysis, and possible chest X-ray or electrocardiogram may be needed before diagnostic laparoscopy. Your physician will decide which tests are necessary and will review the results of those tests, which have already been performed.

What Type of Anesthesia is Used?

Diagnostic laparoscopy is usually performed either under general anesthesia but may be done under local anesthesia with sedation in selected cases. With your help, your surgeon and an anesthesiologist will decide on a method of anesthesia to perform safe and successful surgery.

LOCAL anesthesia can be injected into the skin of the abdominal wall to completely numb the area and allow safe placement of a laparoscope. Most patients feel a short-lived “bee sting” that lasts a second or two. Small doses of intravenous sedation are given at the same time allowing the patient to experience what is known as “twilight” sleep in which patients are arousable but asleep. Once an adequate depth of sleep is reached and local anesthesia administered, gas is placed into the abdominal cavity. This is called

a pneumoperitoneum. The patient may experience a bloated feeling. The gas is removed at the end of the operation. The two most common gases used are nitrous oxide (“laughing gas”) or carbon dioxide. There is very little risk of ill-effects of the gas.

GENERAL anesthesia is given to those patients who are not candidates for “twilight” sleep or who want to be completely asleep. General anesthesia may be preferable in patients who are young, who cannot lie still on the operating table, or have a medical condition that is safer to perform in this manner. Some patients end up having a general anesthesia even though they prefer local anesthesia with sedation, as the appropriate anesthesia for laparoscopy differs from patient to patient.

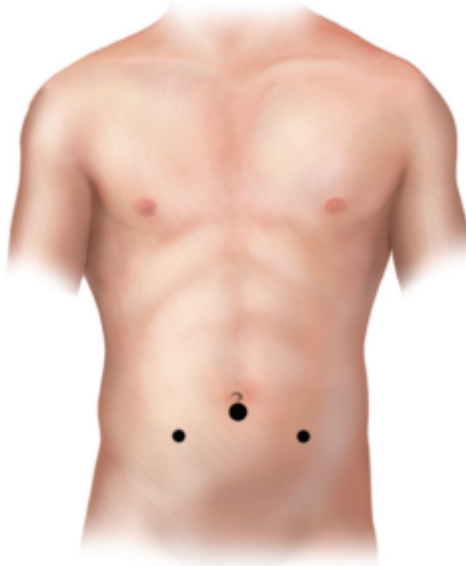
What Preparation is Required?

- After your surgeon reviews with you the potential risks and benefits of the operation, you will need to provide written consent for surgery.
- Most diagnostic laparoscopy procedures are performed as an outpatient; meaning you will go home the same day the procedure was performed.
- You should have nothing to eat or drink for a set time period before the procedure which will be determined by your surgeon and anesthesiologist.
- Standard blood, urine, or X-ray testing may be required before your operative procedure. This will depend on your age and medical conditions.
- It is acceptable to shower the night before or morning of the operation.
- Report to the hospital at the correct time, which is usually 1-2 hours earlier than your scheduled surgery.
- If you take medication on a daily basis, discuss this with your surgeon prior to surgery as you may need to take some or all of the medication on the day of surgery with a sip of water. If you take aspirin, Vitamin E, blood thinners or arthritis medication, discuss this with your surgeon so they can be stopped at the proper time before your surgery.
- You will need to ask your surgeon or his/her office staff what specifically is required in preparation for your surgery.

You will most likely be sedated during the procedure and an arrangement to have someone drive you home afterward is mandatory. Sedatives will affect your judgment and reflexes for the rest of the day. You should not drive or operate machinery until the next day.

What to Expect During the Procedure

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The surgery is performed under anesthesia (see above), so that you will not feel pain during the procedure.

- A port (a narrow tube-like instrument) is placed into the abdominal cavity in the upper abdomen or flank just below the ribs.
- A laparoscope (a tiny telescope) connected to a special camera is inserted through the port. This gives the surgeon a magnified view of the patient's internal organs on a television screen.
- Other ports are inserted which allow your surgeon to see the internal organs and make a decision on the proper diagnosis or treatment.
- After the surgeon completes the operation, the small incisions are closed with absorbable sutures or with surgical tapes.

Expected Outcomes

What Should I Expect After the Operation?

Following the operation, you will be transferred to the recovery room, where you will be monitored carefully until all the sedatives and anesthetics have worn off. Even though you may feel fully awake, the effects of any anesthetic may persist for several hours. Once you are able to walk and get out of bed unassisted, you may be discharged. Because the effects of anesthesia can linger for many hours, it is necessary to have someone accompany you to the office or hospital and drive you home after the procedure.

You can expect some soreness around any incision site; this is normal. Your pain should improve daily even though you may need to take a pain reliever. Your surgeon will instruct you on the use of pain relievers and may give you a prescription for pain medication.

Most patients are able to shower the day after surgery and begin all normal activities within a week. Your surgeon can answer any specific restrictions that apply to you.

You should call and schedule a follow-up appointment within two weeks after your procedure.

What Complications Can Occur?

Any procedure may have complications associated with it. The most frequent complications of any operation are bleeding and infection. There is a small risk of other complications that include, but are not limited to, injury to the abdominal organs, intestines, urinary bladder or blood vessels.

If you suffer with ascites, this ascites may leak from one of the operative sites, temporarily, before stopping.

In a small number of patients the laparoscopic method cannot be performed. The decision to perform the open procedure is a judgment decision made by your surgeon either before or during the actual operation if the surgeon feels that it is safest to convert the laparoscopic procedure to an open one, this is not a complication, but rather sound surgical judgment. The decision to convert to an open procedure is strictly based on patient safety.

When To Call Your Doctor

Be sure to call your surgeon or physician if you develop any of the following:

- fever above 101 degrees F (39 C)
- drainage from or redness any of your incisions
- continued nausea or vomiting
- increasing abdominal swelling
- bleeding
- chills
- persistent cough or shortness of breath
- inability to urinate
- pain not controlled by medication

This brochure is not intended to take the place of your discussion with your surgeon about the need for a diagnostic laparoscopy. If you have questions about your need for a diagnostic laparoscopy, alternative tests, billing or insurance coverage, or your surgeons' training and experience, do not hesitate to ask your surgeon or his/her office staff about it. If you have questions about the operation or subsequent follow-up, please discuss them with your surgeon before or after the operation.

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