



GHADIALI

General Surgery

P R E S E N T S

Dr. Mufa T. Ghadiali is skilled in all aspects of General Surgery.
His General Surgery Services include:

- General Surgery
- Advanced Laparoscopic Surgery
- Surgical Oncology
- Gastrointestinal Surgery
- Hernia Surgery
- Endoscopy

Barium Enema

Multimedia Health Education

Disclaimer

This film is an educational resource only and should not be used to make a decision on **Barium Enema** Test. All such decisions must be made in consultation with a physician or licensed healthcare provider.

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GHADIALI

MULTIMEDIA HEALTH EDUCATION MANUAL

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INTRODUCTION

A **barium enema** is a diagnostic test to assess for abnormalities of the colon. A barium enema is an X-ray procedure that uses barium sulfate and air to outline the lining of the colon and rectum.

Barium Enema Test

Before the barium enema, a digital rectal exam will be performed to make sure there are no rectal problems that would interfere with the procedure.

The barium fluid is then instilled into the colon and briefly held inside the intestine while a series of X-rays are taken. In these X-rays, the white barium allows some intestinal abnormalities to appear as dark silhouettes and patterns along the intestinal lining.

Air can also be pumped into the intestine during this procedure to help sharpen the outline of the intestinal wall.

(Refer fig. 1)

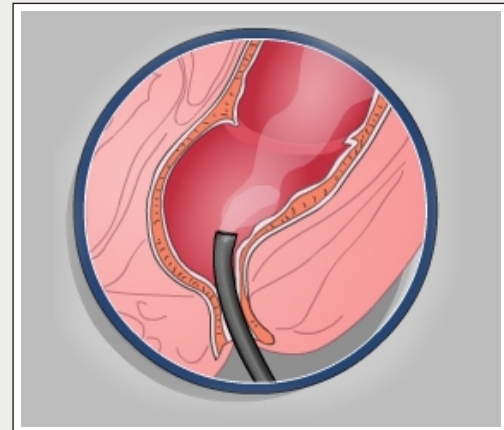
Types of Barium Enemas:

There are two types of barium enemas:

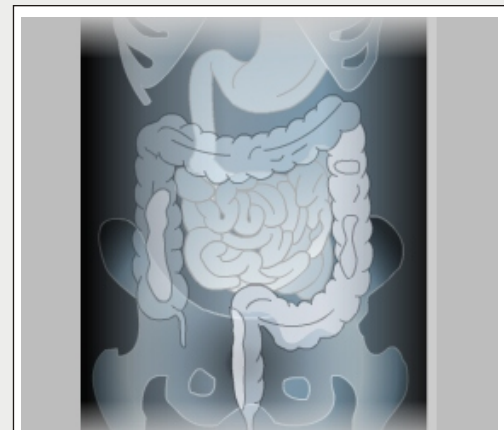
- Single Contrast Study
- Double Contrast Study

In a single-contrast study, the colon is filled with barium, which outlines the intestine and reveals large abnormalities.

(Refer fig. 2)



(Fig.1)

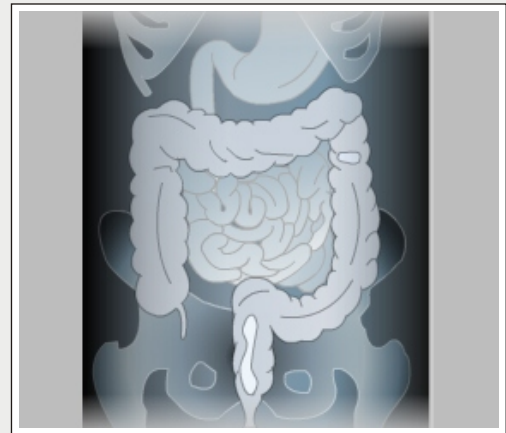


(Fig.2)

In a double-contrast or air-contrast study, the colon is first filled with barium and then the barium is drained out, leaving only a thin layer of barium on the wall of the colon.

The colon is then filled with air. This provides a detailed view of the inner surface of the colon, making it easier to see colon polyps, colorectal cancer, or inflammation.

(Refer fig. 3)



(Fig.3)

Unit 2:

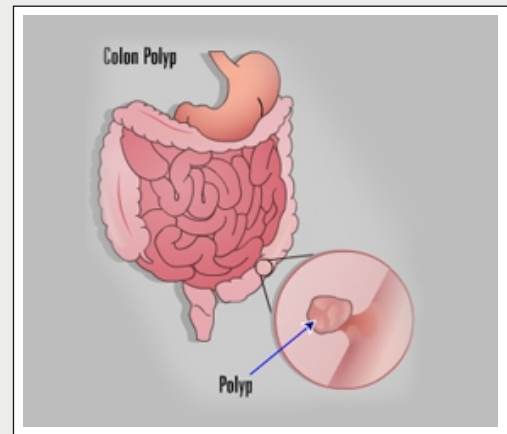
Purpose of Barium Enema

Why is a Barium Enema Performed?

The barium enema test is performed to detect colon cancer. Doctors use the test as a screening tool for certain people who are at risk for colorectal cancer.

Barium enema tests are also used to evaluate abdominal symptoms such as altered bowel habits, anemia, or unexplained weight loss.

(Refer fig. 4)



(Fig.4)

Over the years, barium enema has also been used to evaluate a wide range of other conditions such as the following:

- Appendicitis
- Celiac sprue
- Colorectal adenoma (benign tumors)
- Colonic polyps
- Crohn's disease
- Diarrhea
- Diverticulitis of the colon
- Chronic intestinal pseudo-obstruction
- Lower gastrointestinal bleeding
- Ulcerative colitis

(Refer fig. 5)



(Fig.5)

Unit 3:

Procedure

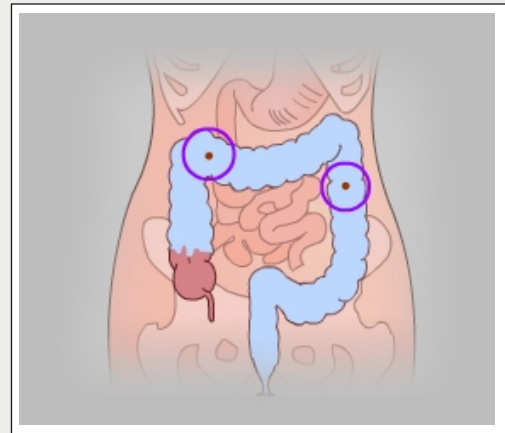
How to Prepare for the Test

The preparation for a barium enema involves a very thorough cleansing of the large intestine.

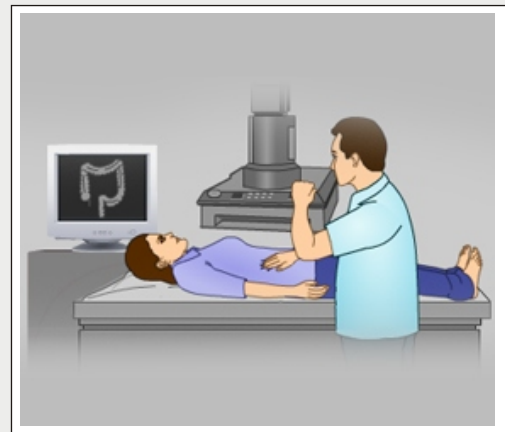
The colon must be completely clear of stool and gas for a successful procedure. Even a small amount of stool can affect the accuracy of the test.

- For 1 to 3 days before the test, you will be on a clear liquid diet.
- You will take a combination of laxatives such as castor oil, magnesium citrate, or bisacodyl to empty your intestines. Your physician will give you specific instructions for bowel prep prior to the test.
- You may be asked to take a tap water enema to clean any remaining stool from your colon.
- On the day of the test, you may need to repeat the enema until the liquid that passes is free of any stool particles.

(Refer fig. 6 & 7)



(Fig.6)



(Fig.7)

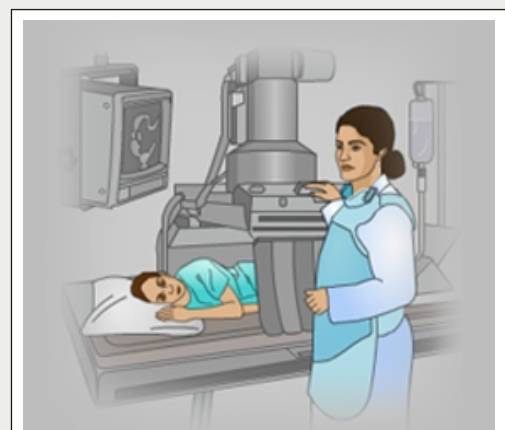
What are the Risks?

Barium enema is usually a safe procedure with minimal risks and complications. However, as with any procedure, risks can occur and include:

- X-ray Exposure

If you are pregnant or think you may be pregnant you should not have this procedure due to X-ray exposure to the fetus.

(Refer fig. 8)



(Fig.8)

- Intestinal Blockage:

It is important for you to follow all instructions after the procedure for clearing the barium from the colon to prevent intestinal blockage.

- Bowel Perforation:

Although rare, perforation of the bowel may occur, especially if the bowel wall is weakened from disease. Perforation can lead to an abscess, a localized infection, or peritonitis, a very serious infection of the abdominal cavity.

(Refer fig. 8)

Although every effort is made to educate you on **BARIUM ENEMA** and take control, there will be specific information that will not be discussed. Talk to your doctor or health care provider about any concerns you have about **BARIUM ENEMA**.

YOUR SURGERY DATE

READ YOUR BOOK AND MATERIAL

VIEW YOUR VIDEO /CD / DVD / WEBSITE

PRE - HABILITATION

ARRANGE FOR BLOOD

MEDICAL CHECK UP

ADVANCE MEDICAL DIRECTIVE

PRE - ADMISSION TESTING

FAMILY SUPPORT REVIEW

Physician's Name : _____

Patient's Name : _____

Physician's Signature: _____

Patient's Signature: _____

Date : _____

Date : _____