

BIOMEDICAL ENGINEERING PROJECT:ANOSCOPE

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1 Introduction

1.1 What is an Anoscope?

An anoscope is a small,rigid,tubular instrument used in the procedure of angioscopy .It is also known as anal speculum.

1.2 What are it's uses?

An anoscopy is most often used to diagnose: :Hemorrhoids-A medical condition that causes swollen,irritated veins around the anus and lower rectum .They can be inside the anus or the skin around the anus. :Anal fissures-They are the small tears in the lining of anus . :Anal Polyps-Abnormal growth on the lining of anus is referred to as anal polyps. :Inflammation-The test can find the cause of abnormal redness and unusual redness,swelling and/or irritation around the anus. :Cancer-High resolution anoscopy is often used to look for cancer of the anus or rectum .The procedure can make it easier for your healthcare provider to find abnormal cells.

1.3 Why do we need to do an anoscopy?

If you have symptoms of an anus or rectum problem,you may require this test .Some are the following examples-: :Blood in your stool or on toilet paper after a bowel movement :Itching around the anus :Swellings or hard lumps around the anus :painful bowel movements

1.4 What happens during an endoscopy?

During an endoscopy: :You will put a gown and remove your underwear. :You will lie on an exam table.You will either lie on your side or kneel on the table with your rear end raised in air . :your provider will gently insert a gloved ,lubricated finger into your anus to check hemorrhoids,fissures or other problems.This is known as digital rectal exam. :your provider will then insert a lubricated tube

called an anoscope about 2 inches in height into your anus. :Some anoscopes have a light on the end to give the provider a better view of anus and rectum area. :If your provider finds cells that do not look normal then he may use a swab or other tool to collect a sample of tissue for biopsy .High resolution anoscopy may be better than normal anoscopy for finding abnormal or defective cells.

1.5 What do the results mean?

Your results may show a problem with your anus or rectum. These may include :Haemorrhoids :Anal fissure :Anal polyp :Infection :Cancer-The biopsy can confirm or may rule out cancer. Depending on the results, your provider may recommend more tests or treatment options.

1.6 Conclusion

So we see that angioscopes have a vast utility and use in the medical field and further more newly invented techniques can be generated in the near upcoming future.