3D endorectal ultrasound in coloproctology

by
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Introduction

- 3D endorectal U/S is an important tool in diagnosis of colorectal diseases.
- Simple
- Non invasive
- Cheap
- Done bedside and on outpatient base.

It used in diagnosis of organic and functional anorectal disorders

**Organic disorders**
- Rectal carcinoma
- Anal carcinoma
- Fistula in ano
- Anal suppuration
- Chronic anal pain

**Functional disorders**
- Faecal incontinence
- Obstructed defecation
- Anal sphincter thickness
Ultrasonographic anatomy

- Anal canal

![Diagram of anal canal with layers and landmarks: External anal sphincter, Internal anal sphincter, Subepithelial tissue, Longitudinal muscle.](image)
Organic disorders

• Rectal carcinoma and Anal carcinoma:

1: Interface, hyperechoic; 2: Mucosa/Muscularis M., hypoechoic
3: Submucosa, hyperechoic; 4: Muscularis propria, hypoechoic
5: Perirectal Fat/Serosa, hyperechoic
Fistula in ano
Chronic anal pain
Presacral lipoma

functional disorders

• faecal incontinence
obstructed defecation

- echodefecography
Thank you