



3D endorectal ultrasound in coloproctology

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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***

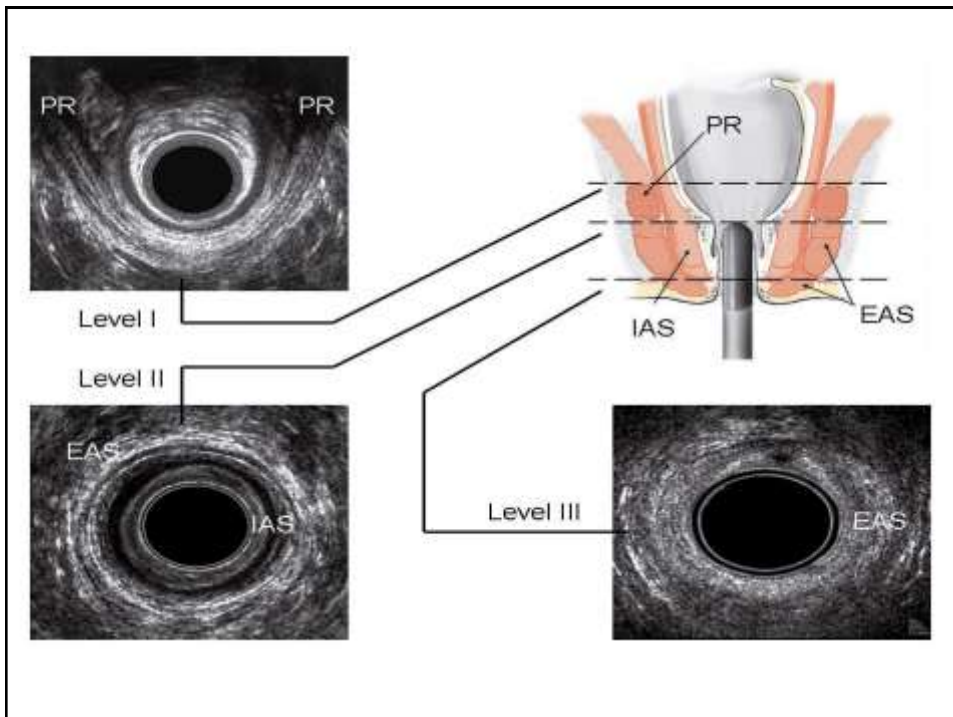
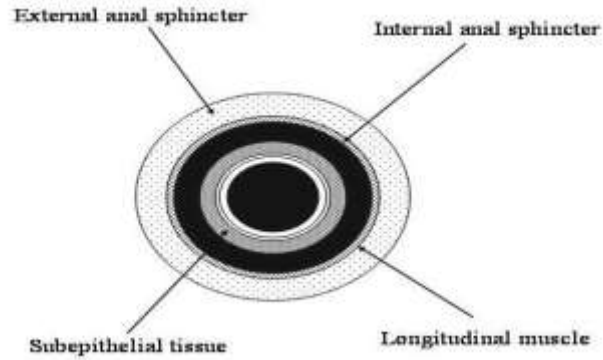
functional disorders

- ***faecal incontinence***
- ***obstructed defecation***
- ***anal sphincter thickness***

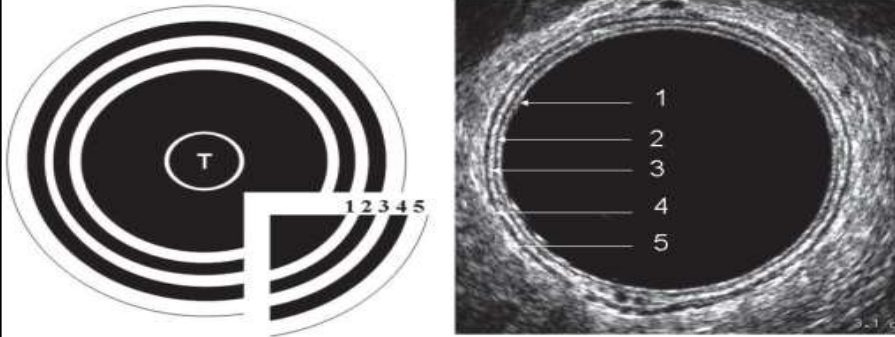


Ultrasonographic anatomy

- Anal canal



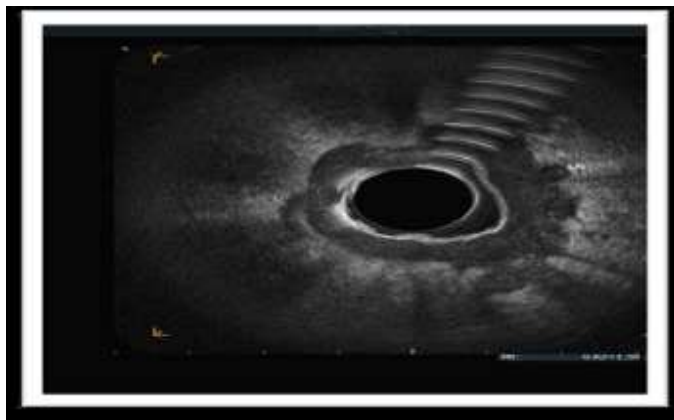
rectum

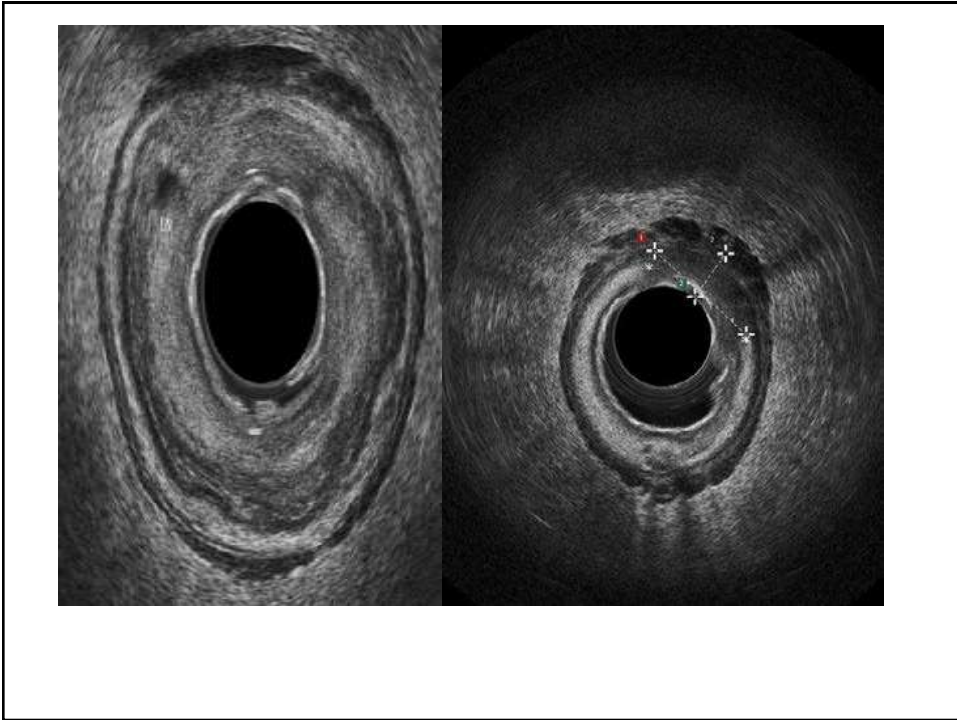


- 1: Interface, hyperechoic; 2: Mucosa/Muscularis M., hypoechoic
 3: Submucosa, hyperechoic; 4: Muscularis propria, hypoechoic
 5: Perirectal Fat/ Serosa, hyperechoic

Organic disorders

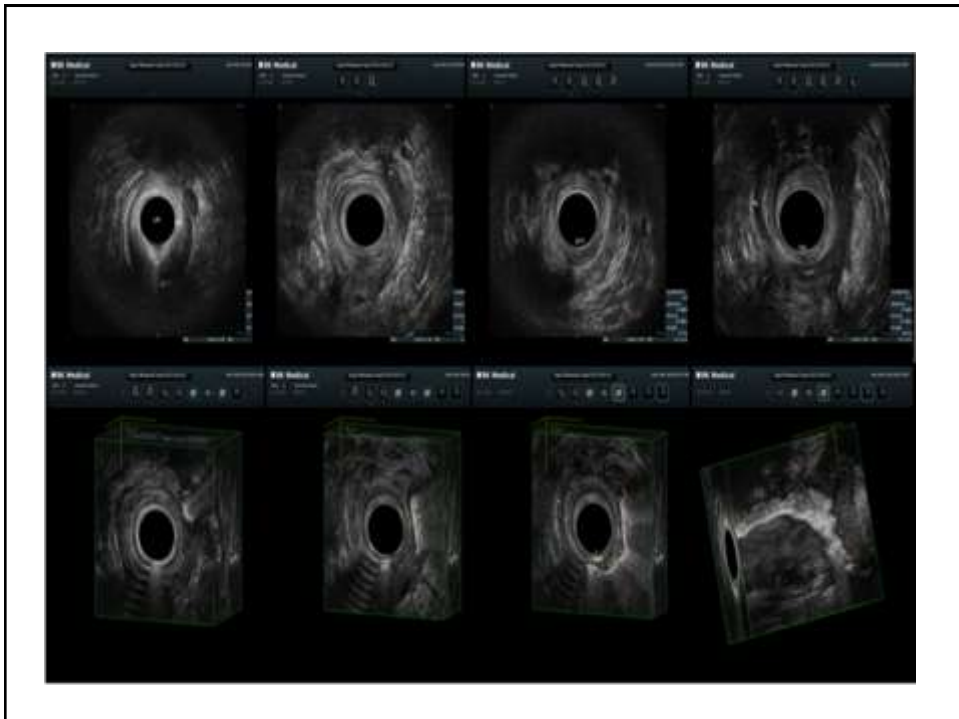
- *Rectal carcinoma and Anal carcinoma:*

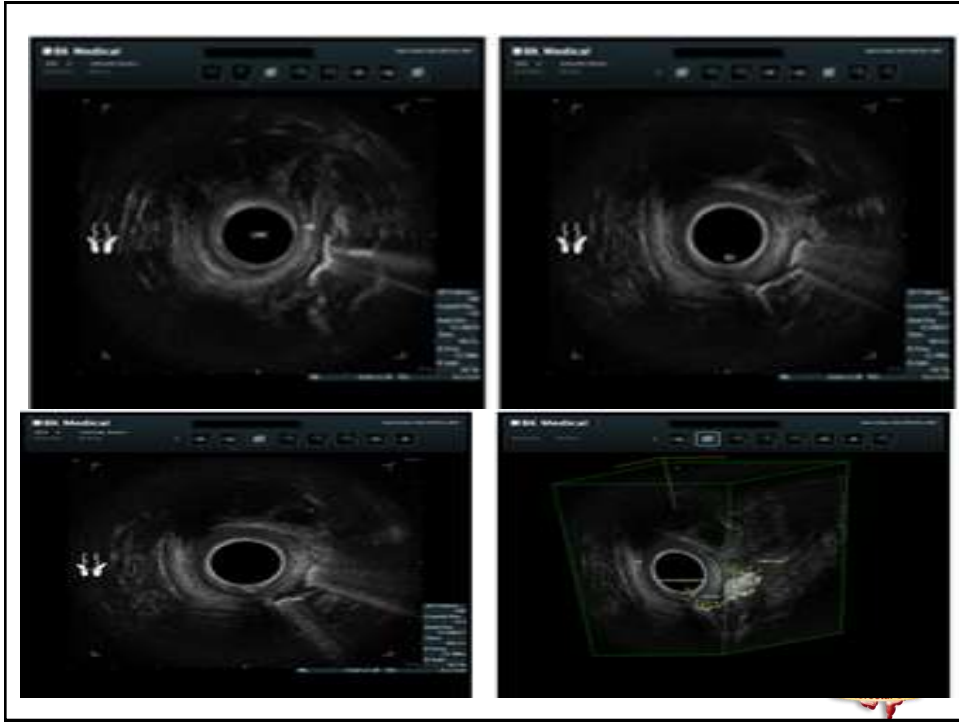




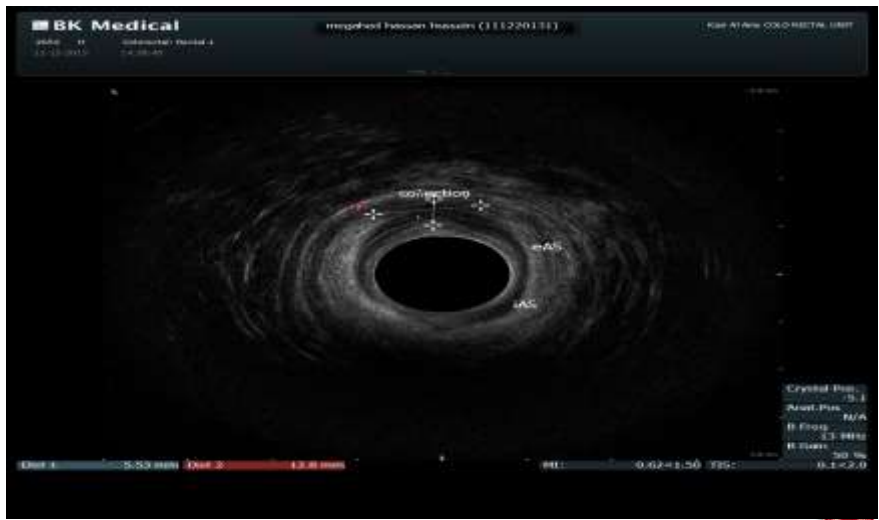
Fistula in ano







Chronic anal pain



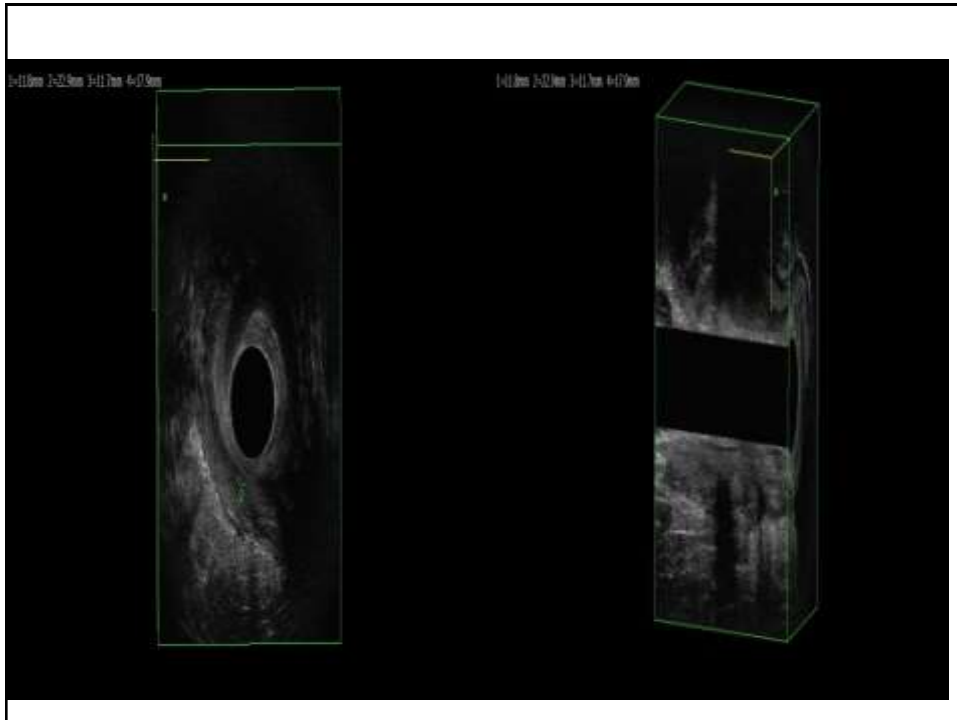
Presacral lipoma



functional disorders

- *faecal incontinence*





obstructed defecation

- echodefecography



Thank you

