Diverticular disease



Short notes



This is a colonic pathology and not a rectal one because tinca coli cover the rectam

false diverheulum (2 layer only - mucosa)

• Common anatomical disorder Characterized by acquired, sac-like mucosal protrusions (diverticula) through the muscle wall.

Traditionally thought to be related:

Western world

- Mature age group
- Meat rich Fiber poor diet
- Parks , based on 300 dissections :

In the Lateral intertaenial areas

Mainly in the sigmoid

A blood vessel pierce the wall at the neck of the diverticulum.

sespecially the colon that ascullational but sometimes we can see directions a in the retroperitoreal part of the colon for exemple: cecumpiverticula

or sigmoid

Mesenteric taenia

Diverticula Mesocolon

Source: Gerard M. Doherty: CURRENT Diagnosis & Treatment: Surgery, 13th Edition

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Race and geography

- Geographic disparities in the incidence imply that it is predominantly a disease of industrialised societies associated with an ageing population and Western diet
- The incidence has increased in North America by up to 50% in the past two decades, and more so in younger people. IT is extremely rare in Asia and Africa compared to Europe and the USA
- Immigration to Western countries results in an increase in the incidence of diverticular disease

Age and gender



- Males are more likely to develop diverticulitis at a younger age whereas there is a female predominance in older patients
- younger age is a risk factor for recurrent disease rather than an indication for early intervention in the acute setting, as these patients are just as likely to settle with conservative management

Diet

sho evidence that giving the pattent a high- liber diet will care.

The problem is only helps in constipation

Low-fibre diet has an epidemiological association with the development of diverticular disease. However, recommending fibre as a treatment for diverticulosis is largely based on outdated, poorly controlled studies.



Etiology and pathogenesis

- luminal trauma, elevated colonic pressures, altered bacterial flora. cholinergic smooth muscle excitation and neurohumoral signalling (serotonin, nitric oxide, VIP)
- Lifestyle (Obesity)
- Smoking
- NSAID

Diverticular disease (Diverticulosis) can cause:

- Diverticulities Inflammation of the diverticular (outputhing) + micro perturation of (depending on the degree)
- Peritonitis

tibrosis Rollowing inflammation and it Intestinal obstruction - because of Haemorrhage - rectal building

Fistula formation (ex. colovesical fistula)

->sticking to adjacent structures

Diverticulitis

cansed by micro perforation of the diverticulum

- Acute inflammatory condition characterised by left iliac fossa or suprapubic pain, malaise and fever (Irstommatory response) ([frim)
 - + tachy condia and hypotension
- Annual incidence of 1/1000
- Male predominance aged under 45 but female predominance in those older
- Increasing incidence in the under-45 age group

Hinchey classification



- Grade I Mesenteric or pericolic abscess
- Grade II Pelvic abscess
- Grade III Purulent peritonitis (with pus only)
 Grade IV Faecal peritonitis (full rupture of colon)

* fatient with abdominal

Pain > left iliac fosser Diagnosis and imaging

or supreprobic + tendemers

At the site of the parn _____ it could be more; peritonitis, ghowding or enten shock

there thenkocytosis

• CT in rapid, multiple slice scanners capable of variable plane reconstruction became the gold standard in determining the diagnosis and staging of diverticulitis

En diverticular discuses other than diverticulity

- Colonic imaging (either colonoscopy or CT colonography) is still performed routinely following an episode of diverticulitis to rule out neoplasia
- Timing and indication of Colonoscopy is questionable.

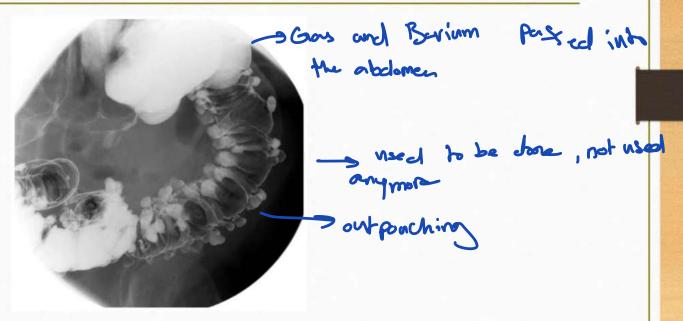
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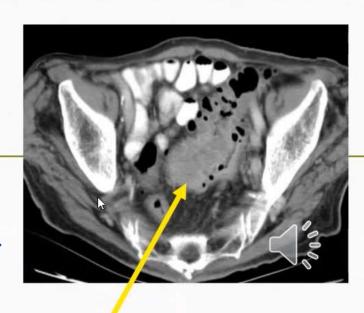
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divertialitis

(No inflammation

at woll, gas or

peritonitis)



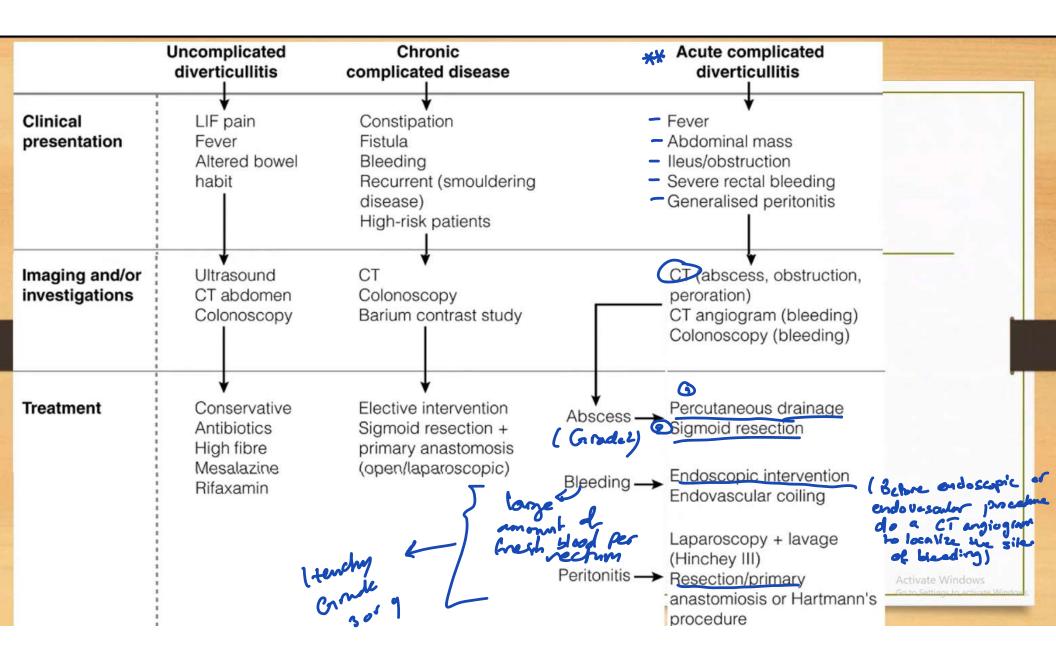


(thickened vall)
Inflammation at sigmoid colon
fut around polon is whitish and
thickened

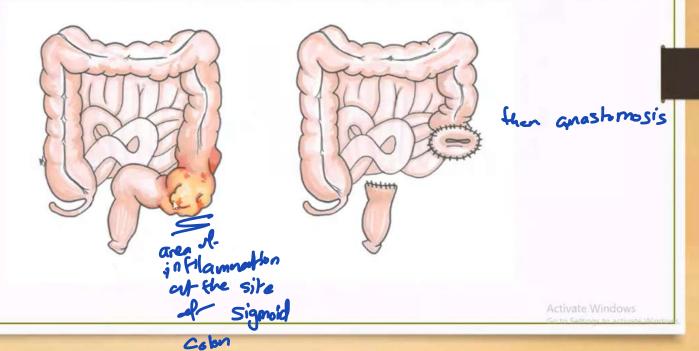
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Treatment

- Asymptomatic patients with diverticulosis do not require treatment (incidental landing)
 - Avoiding nuts and seeds: No scientific basis or fact
 - ligher fibre intake does not change the course of symptomatic diverticular problems
- There is currently no consensus on the most appropriate antibiotic regimen or route (oral/intravenous) for diverticulitis but, broad-spectrum agents covering Gram-negative and anaerobic organisms are advised
- Two randomised trials have found that antibiotic treatment for acute uncomplicated diverticulitis neither accelerates recovery nor prevents complications or recurrence. As such, observational treatment without antibiotics can be considered appropriate in non-septic patients



Hartmann's operation



Elective resection

· Recurrent Diverticulitis??? Securrent hospitalization with antimony

Then
resection 12
required

The natural history of diverticulitis is such that one in six patients undergo surgery at presentation while approximately 20-25% re-present, with a similar proportion requiring surgery such that less than 5% have more than two episodes

Decision of surgery is based on an individualized basis

I sunted respection is required

Diverticular fistula, diverticular stricture and disease refractory to conservative management.

Diverticular haemorrhage

• 3-5 %

The majority of diverticular haemorrhages cease spontaneously
 My need angiography, emergency resection.
 Elderly patient with high mortality
 Treatment: recursitation from engingaphy
 In most cases bleeding stopps after gubkring the patient

- Drops of blood gresenting to the chric - this is not her orthogies divertialities at Windows

Thank You

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