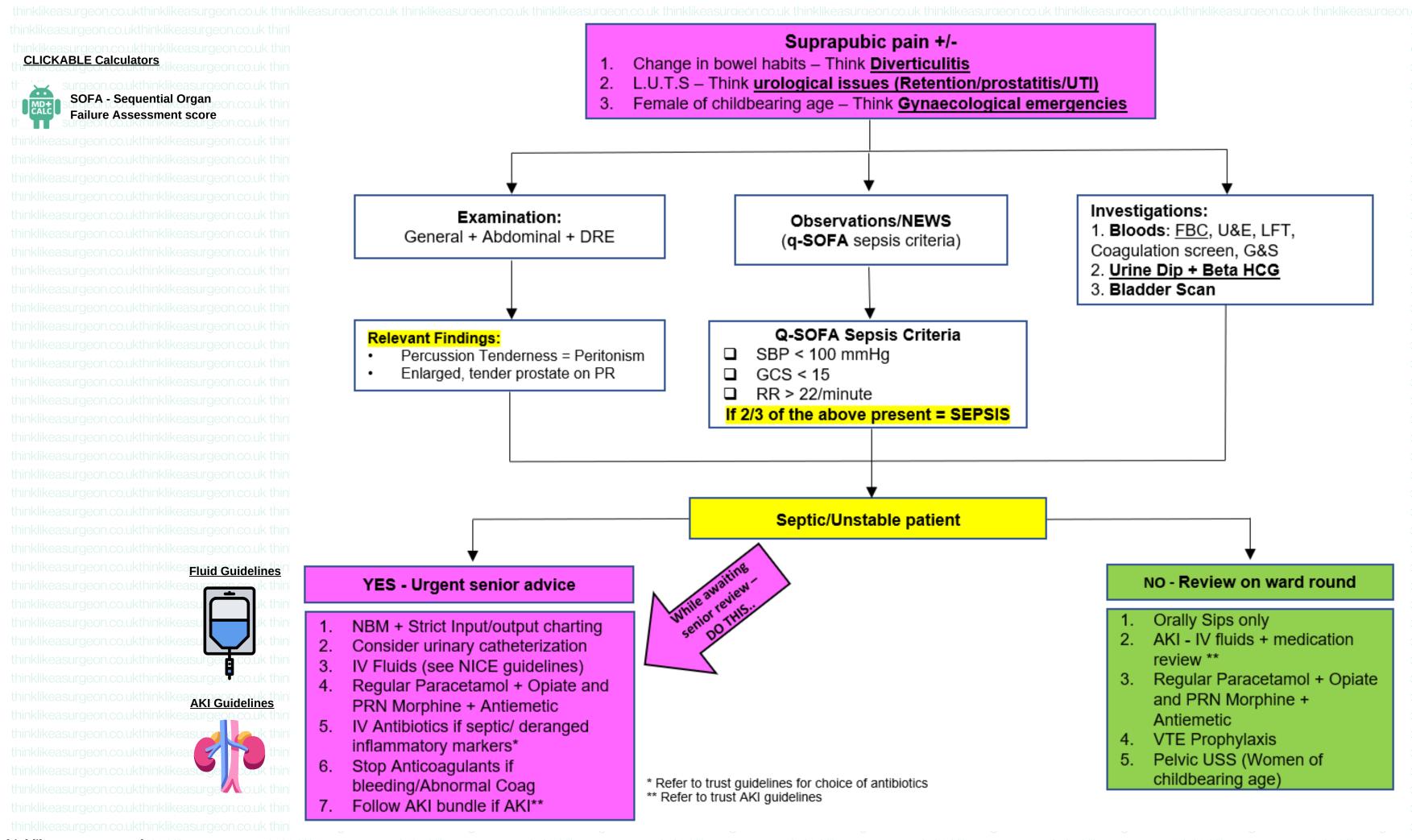
CHAPTER OVERVIEW - SUPRAPUBIC REGION



This chapter covers key differentials in the suprapubic region such as Diverticlutis (The sigmoid can be very floppy), Bladder outflow obstruction and urological emergencies such as prostatitis. Always dip the urine to look for infection and do a bladder scan to rule out retention. There's nothing worse than putting a patient through the CT scan for lower abdominal pain and finding out that the only thing wrong is an enlarged bladder. (true story)







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DIVERTICULITIS

"Colonic diverticula are protrusions of mucosa at points of weakness in the colon's muscular wall where the vessels enter. They are not 'true' diverticula, but rather protrusions of the mucosa.

The Western diet leads to less bulky stools.

Small, hard stools require greater intraluminal pressures. These high pressures produce the diverticula"

(Schein's common sense emergency abdominal surgery)

They are most common in the SIGMOID COLON



Perforation with purulent peritonitis:

Acute diverticular perforation with pus in

two or more quadrants. Often needs an

Illustration: Acute diverticular pathologies and presentation

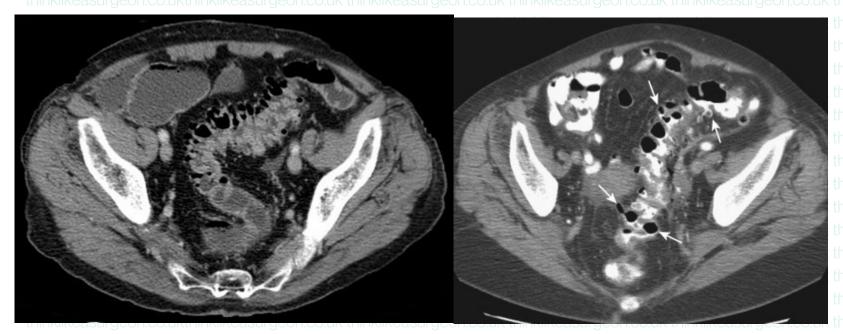
High mortality despite surgical interventic

Presentation - Can be due to:

- 1. **Diverticulitis** LLQ pain + Altered bowel habits (constipation or diarrhoea) +/- PR bleeding.
- 2. Diverticular **bleed** Altered bowel habits (Recent constipation or ever diarrhoea) + PR bleeding.
- 3. Diverticular **perforation** Peritonitic +/- Septic
- 4. Chronic diverticulitis **Fistula** (commonly Colo-Vesical or Colo-Vaginal) and diverticular **stricture** with large bowel obstruction keasurgeon could thinklike
- 5. Diverticular **Abscess** Previous diverticulitis with sepsis

Investigation of choice -

- CT AP + I.V contrast (Diverticulitis/complications) and CT mesenteric angiogram (Diverticular bleed)
- Colonoscopy to rule out malignancy, as it can co-exist with diverticulitis. (After resolution of acute episode 6/52)



Images: Left - CT AP with I.V contrast showing Sigmoid divertiCULOSIS and Right - Sigmoid DivertiCULITIS

Acute uncomplicated diverticulitis:

Acute inflammation of the diverticulum following obstruction by a small faecolith or a food particle such as a seed.

Complications - May needHDU/ITU escalation

2. THINK Infective colitis (Recent antibiotics/

immunocompromised) - Send stool C/S urgently

4. THINK Colonic cancer (Family history, age, Wall

3. THINK IBD (F/H/O Crohns Colitis/Ulcerative Colitis)

Differential diagnoses are very important.

1. THINK Ischaemic colitis (IHD, AF, Immunosuppression)

1. Acute -

- Local Perforation, Bleeding and abscess formation
- Peritonitis (Purulent or faeculent)

thickening on CT)

- 2. Chronic -
- Stricture & large bowel obstruction
- Fistulas (Colo-Vesical / Colo-Vaginal/ Coloenteric)

Management of Acute Diverticulitis (Based on presentation)

- 1. Simple diverticulitis No Antibiotics, Antibiotics if septic or immunocompromised
- 2. Diverticular **bleed**
- Stool chart
- Stop anticoagulants +/- PRBC transfusior

Perforation with local abscess:

Localised abscess formation after complicated diverticulitis. Consider IR

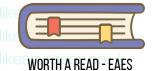
- IR Embolisation
- 3. Complicated diverticulitis

a. Abscess/collection

- i.Conservative management with antibiotics, if<5cm or multiple small
- ii. IR drainage, if >5cm, accessible, well formed in progressively septic patient
- iii. Laparoscopic or open washout required if failed conservative or IR drainage.

b. Purulent/Faecal peritonitis

- i.Purulent peritonitis Emergency Laparoscopy/Laparotomy + lavage OR Hartmanns procedure uk thinklikeasurgeon.co.uk thinklike
- ii. Faeculent peritonitis Emergency Hartmanns procedure
- c. **Fistulas** are treated electively, following the **SNAP** protocol. (**S**epsis control, **N**utritional support, Assessing **A**natomy, **Pl**anning procedure)
- d. **Diverticular Stricture** can have varied presentations:
 - i. Acute large bowel obstruction. Ideally patients should have a laparotomy and resection but in unfit patients, olonic stent can be considered.
 - ii. Chronic large bowel obstruction- Need to exclude cancer by colonoscopy + biopsy before planning resection.

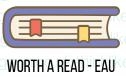


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AN INTERESTING CASE

UROLOGICAL ISSUES



CYSTITIS - Inflammation/infection of the urinary bladder.

Uncomplicated cystitis -

Acute, sporadic or recurrent cystitis limited to non-pregnant, pre-menopausal women with no known relevant anatomical or functional abnormality.

Presentation - Dysuria, frequency and urgency (L.U.T.S)

Investigation of choice - Urine analysis, Urine C&S

Management -

- 1. Oral antibiotics
- 2. Analgesia
- Complicated cystitis Acute cystitis in
- 1. Male sex/ Pregnant female
- 2. Indwelling urinary catheter
- 3. Structural & functional abnormality in bladder
- 4. Immunocompromised patients.

PROSTATIS - Bacterial infection of the prostate gland.

Presentation - Supra-pubic pain + L.U.T.S **Investigation of choice -** Clinical diagnosis.

Urine analysis + Urine C/S

Management -

- Acute prostatitis treat as complicated UTI
- 1.I.V antibiotics
- 2. Sepsis 6
- Chronic prostatitis Long course oral antibiotics

FOURNIERS GANGRENE

A sub-category of necrotising fasciitis caused by poymicrobes. It can involve the perineum, perianal region and external genitalia. It can be very aggressive and fatal. Patients can mount significant S.I.R.S. (Systemic Inflammatory Response Syndrome).

Management -

- 1.NBM + I.V Fluids
- 2. Start broad spectrum intravenous antibiotics
- 3. SEPSIS 6 and send cultures
- 4. Surgical debridement of the wound within 24hrs of presentation

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- Radiopedia A big 'thanks' to the best radiology reference website for permitting us to link to their resources and cases. Without their valuable input, this book would be incomplete. If you wish to sign up (for free), please go to https://radiopaedia.org/?lang=gb
- Radiology Masterclass A high-quality, world-class educational service providing free access to radiological tutorials. They also offer courses that cover the undergraduate imaging curriculum as specified by the Royal College of Radiologists. We have linked to a few of their courses throughout our book. If you want to further your radiological skills or get a certificate (for your portfolio) and CPD points, be sure to explore their website https://www.radiologymasterclass.co.uk/