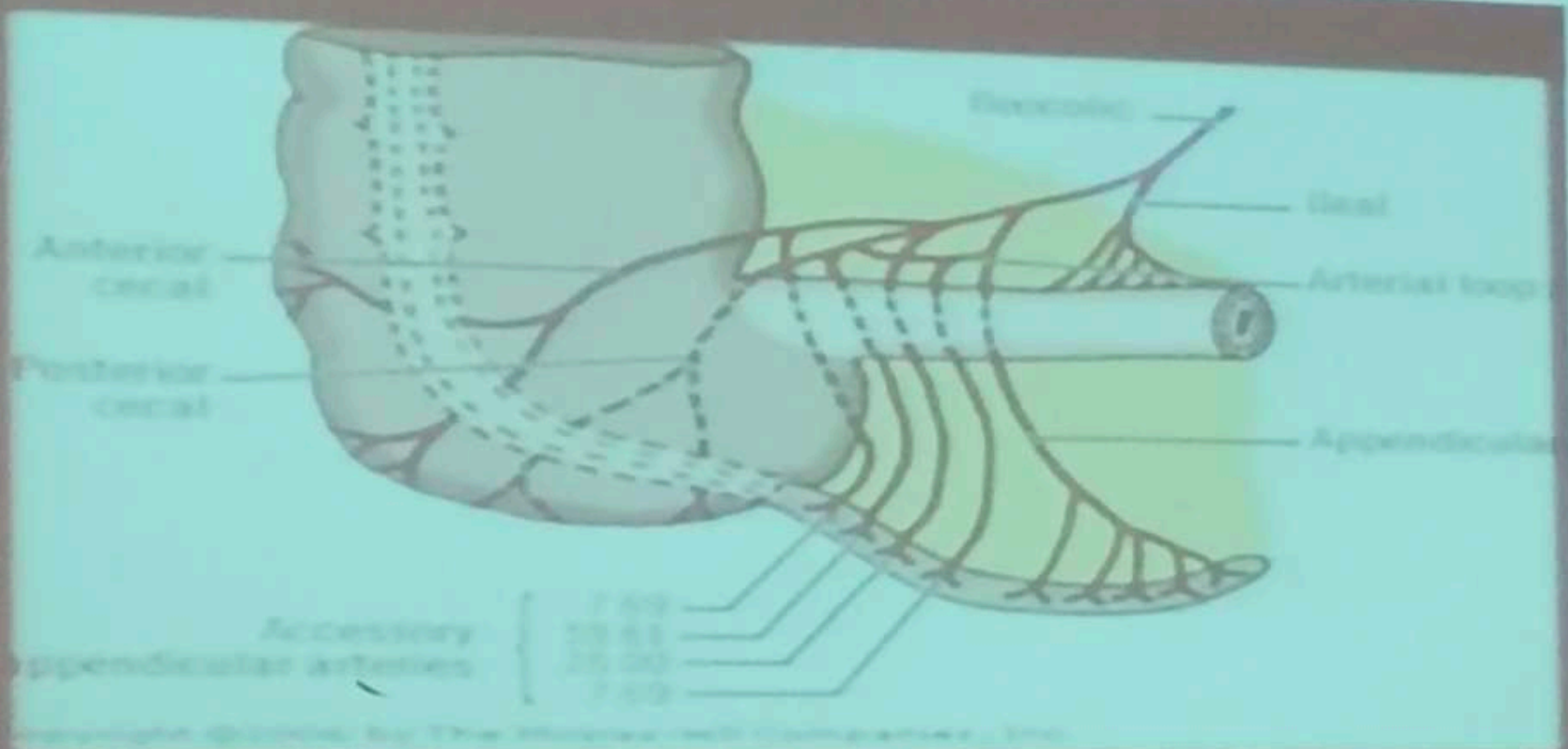
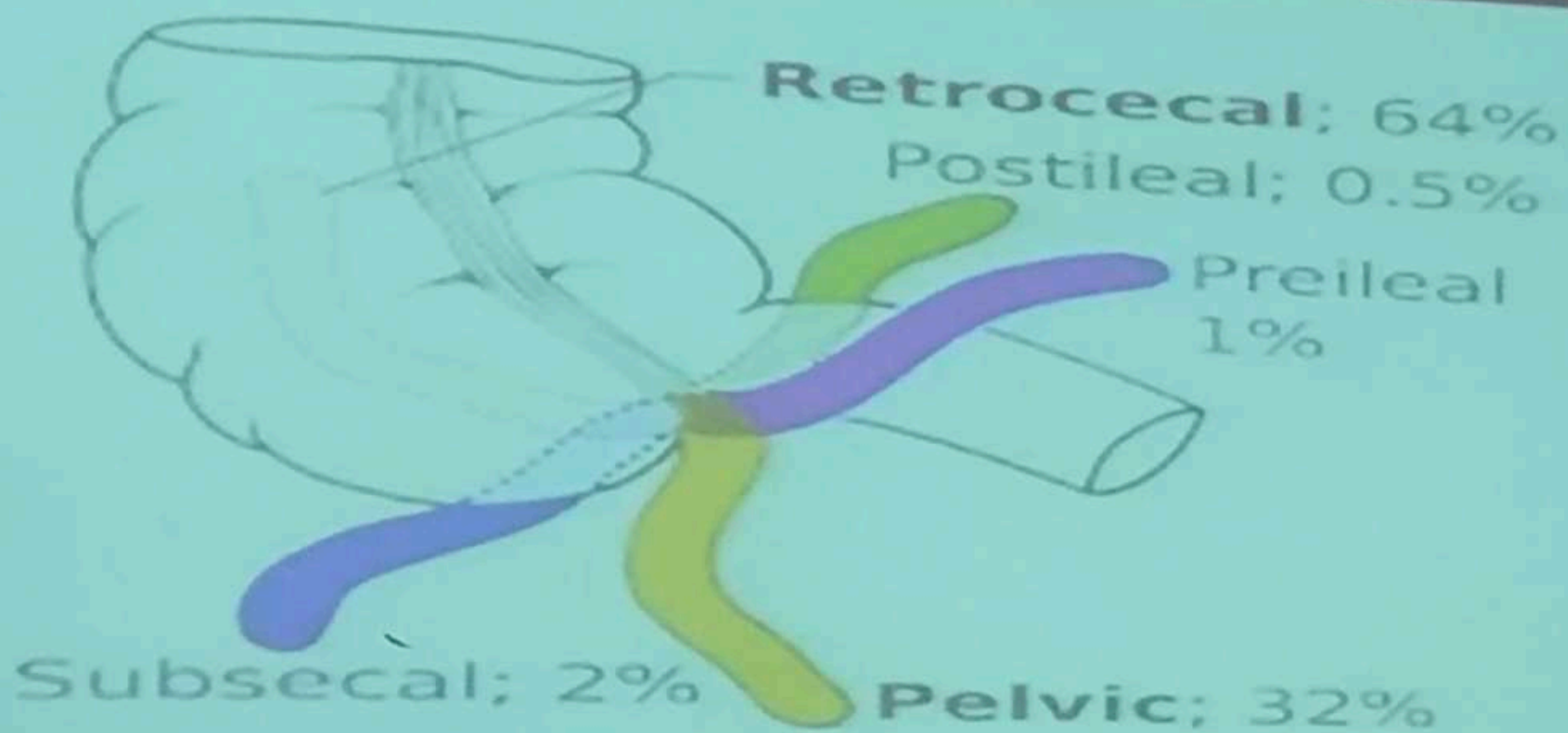


Anatomy and Physiology

- 8th week of embryologic development
- The relationship of the base of the appendix to the cecum remains constant, whereas the tip can be found in a retrocecal, pelvic, subcecal, preileal, or right pericolic position







PATHOLOGY AND PATHOGENESIS

- Appendix lumen obstruction leads to congestion within the appendix
- Inflammatory exudate and mucous increases luminal pressure
- Initial stage might resolve in some patients
- Appendix may distend with mucus- mucocoele

APPENDICITIS COMPLICATIONS

- **Gangrenous Appendicitis:**
 - Thrombosis of the appendiceal artery and veins

- **Perforation:**
 - complication rates 58 %
 - perforation rate increased at both ends of the age spectrum

- **Peri-appendiceal abscess:**
 - most frequent complication
 - peri-appendiceal fibrinous adhesions

- **Peritonitis:**

- Bacterial peritonitis in absence of fibrinous adhesions.
- Escherichia coli

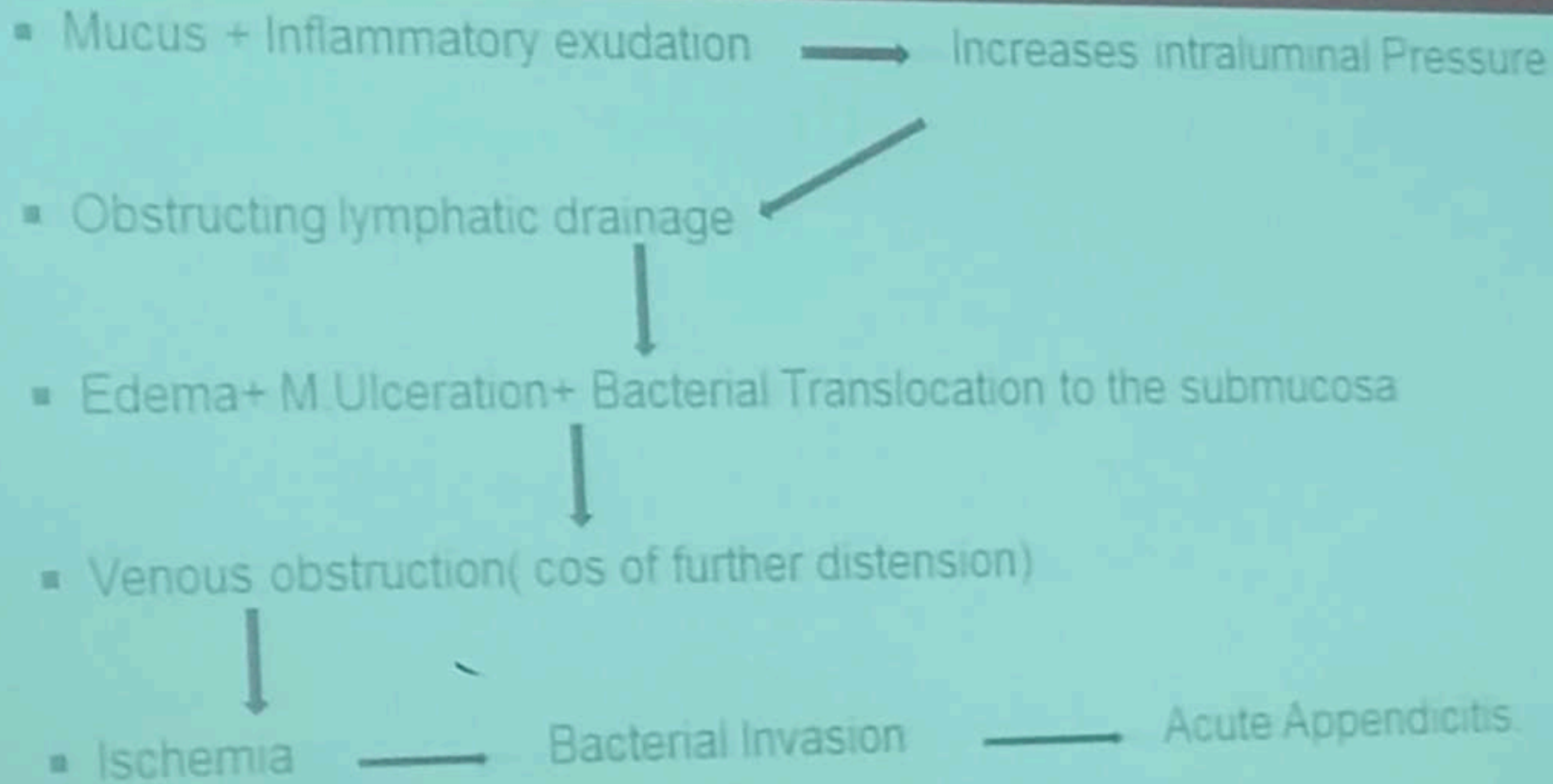
- **Bowel Obstruction**

- **Septic seeding of mesenteric vessels**

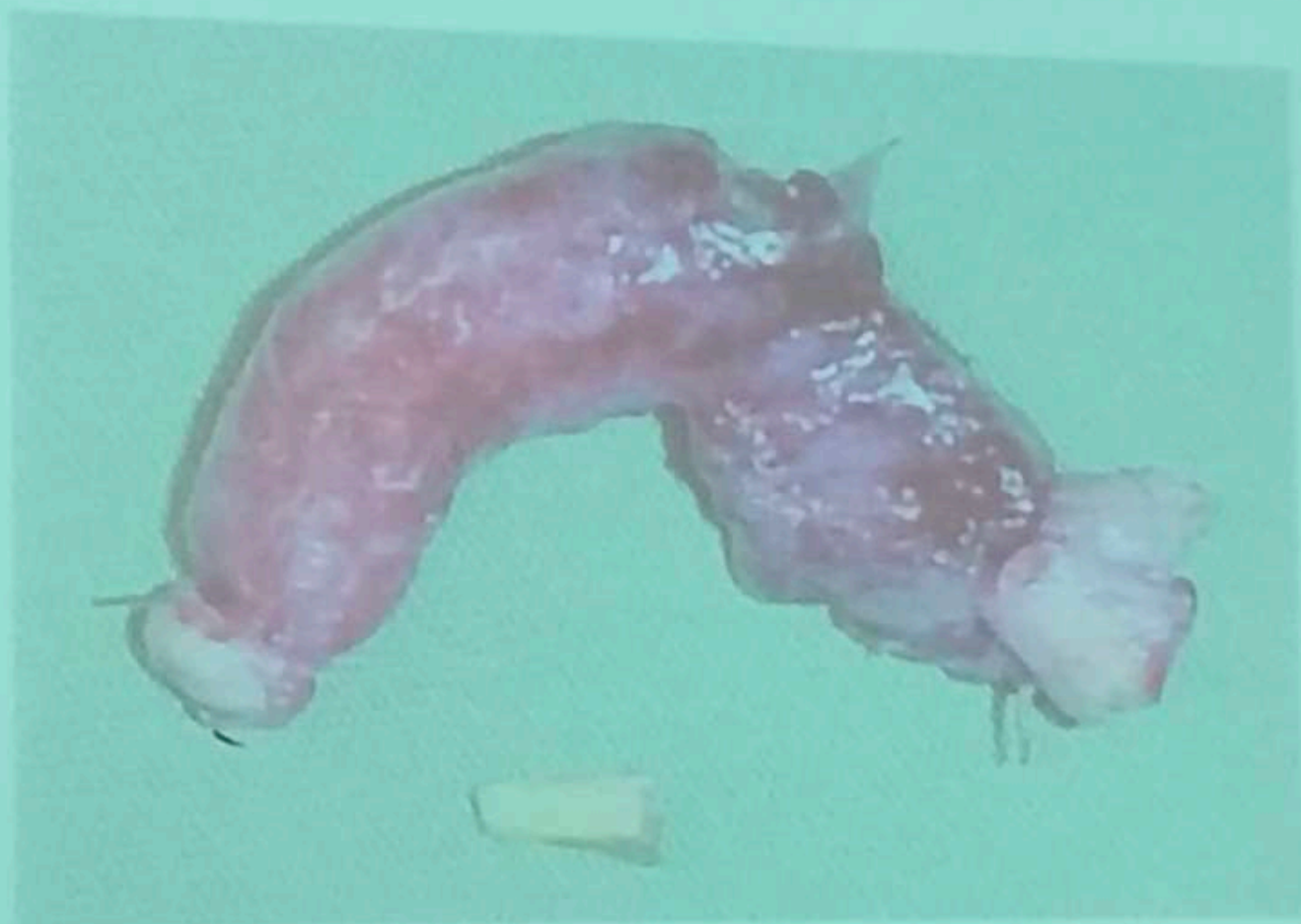
- infection along the mesenteric-portal venous system
- pylephlebitis, pylethrombosis, or hepatic abscess

- 1. Introduction
- 2. Pathophysiology
- 3. Clinical Presentation
- 4. Diagnosis
- 5. Treatment
- 6. Prognosis
- 7. Conclusion

OBSTRUCTION

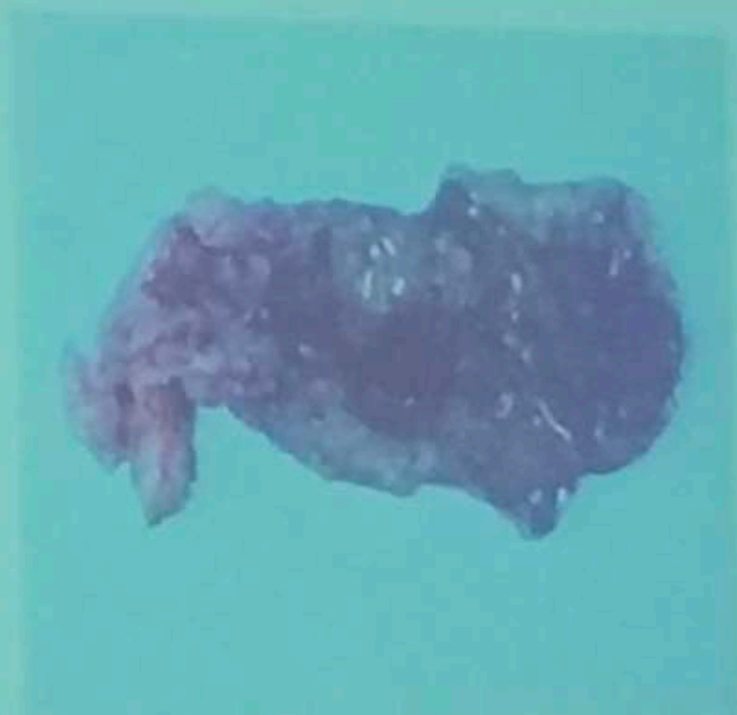


PERFORATED APPENDIX



GANGRENOUS APPENDIX

Thrombosis of Appendicular artery
(as it is an end artery)



PHLEGMONOUS MASS/ PARACAECAL ABSCESS

Greater omentum & loops of small bowel become adherent to the inflamed appendix



Walling off the spread of peritoneal contamination



Phlegmonous Mass / Paracaecal abscess

SIGN TO ELICIT APPENDICITIS

- Rovsing's Sign
- Psoas Sign
- Obturator Sign
- Dunphy's Sign: Any movement (Coughing) causes Pain.
- Mc Burney's Point -Tenderness

INVESTIGATION

- TLC- Raised: 10000 to 18000 (Neutrophils >75%)
- If TLC >18000 (suspect perforation)
- Abdominal X-Ray
- Abdominal Ultra sonography
- CT Scan

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ALVARADO SCORING SYSTEM SYMPTOMS SCORE

mentrel nemonic

	Manifestations	Value
Symptoms	Migration of pain	1
	Anorexia	1
	Nausea/vomiting	1
Signs	RLQ tenderness	2
	Rebound	1
	Elevated temperature	1
Laboratory values	Leukocytosis	2
	Left shift	1
		Total Points 10

Score	Inference
7-10	Strongly predictive of appendicitis
5-6	Equivocal Radiological investigations
1-4	Appendicitis ruled out

TREATMENT

- Absolute bed rest & NPO
- IV Fluids Supplements
- Analgesics
- Antibiotics
- Appendectomy (within 24 hours ASAP)

**ACUTE APPENDICITIS:
COMPLICATIONS & TREATMENT**

**DR AQEEL CH
ASSISTANT PROFESSOR
DEPARTMENT OF SURGERY**

TREATMENT

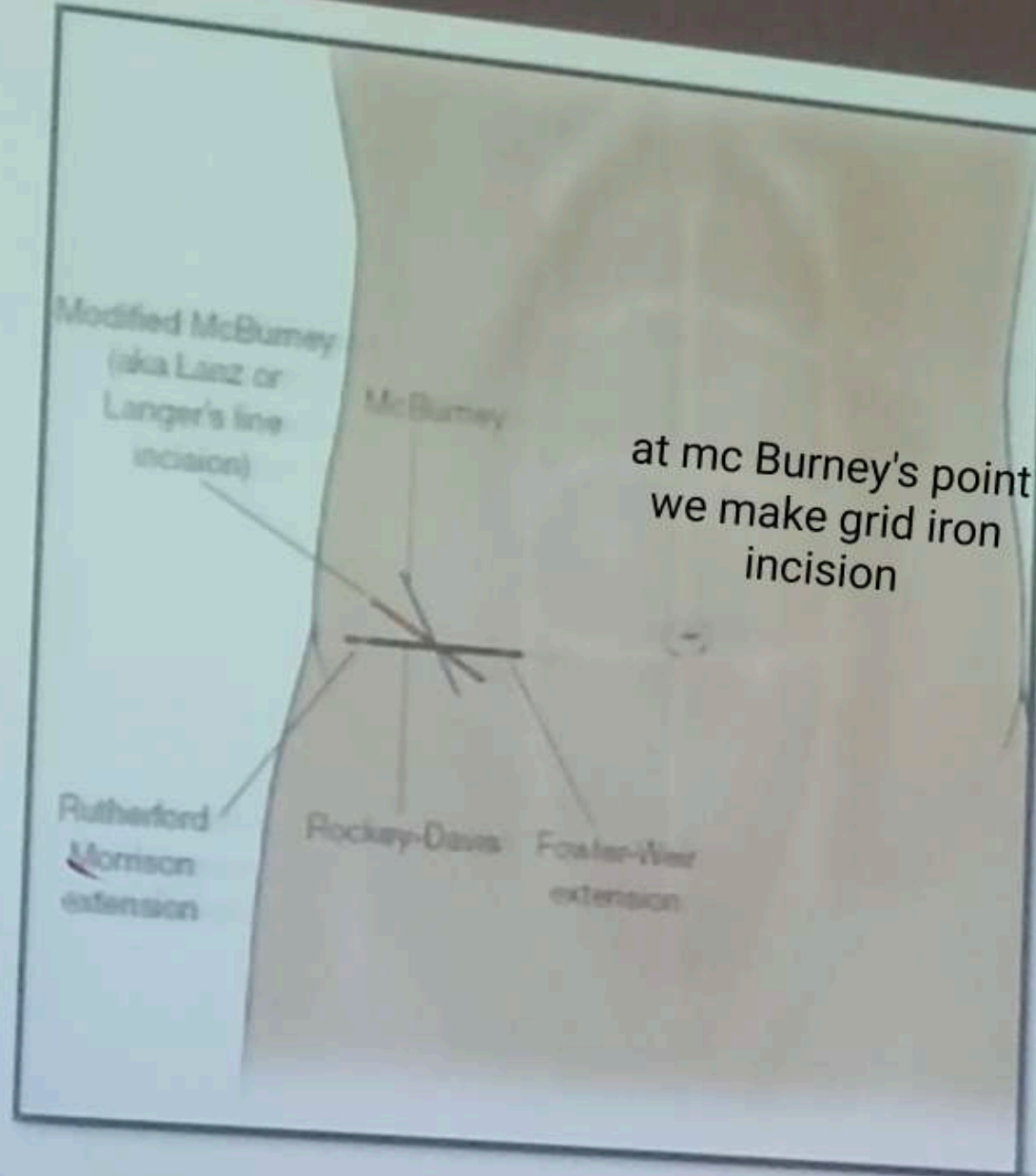
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- IV Fluids Supplements
- Analgesics
- Antibiotics
- Appendectomy (within 24 hours ASAP)

COMPLICATION OF APPENDECTOMY

- Wound Infection
- Intra-abdominal abscess
- Ileus
- Respiratory complication like pneumonia
- Portal Pyaemia
- Adhesive Intestinal Obstruction
- Faecal Fistula
- Richter's Hernia
- DVT & Embolism

INCISIONS IN APPENDECTOMY

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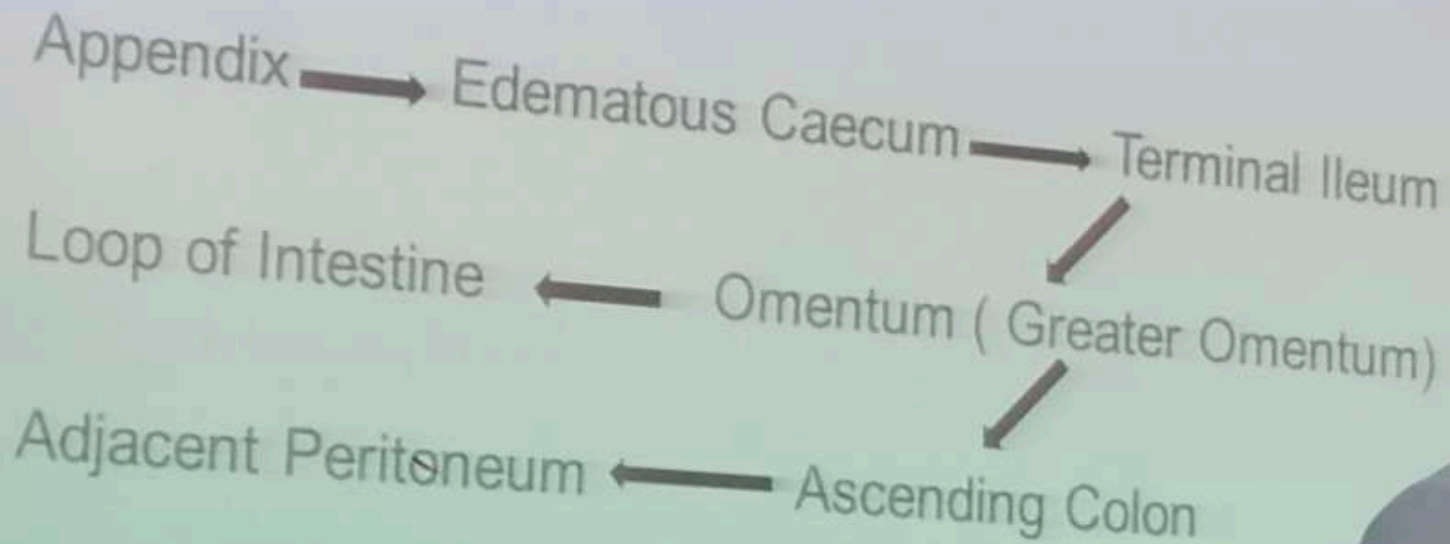
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PRESENTATION OF APPENDICULAR LUMP

- Usually on 3rd day of attack of appendicitis.
- Lump in Right iliac Fossa
- Guarding over the lump
- Tenderness
- Fever/ Increase pulse

APPENDICULAR LUMP



PRESENTATION OF APPENDICULAR LUMP

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Appendicular Lump- Don't Operate (??)

- Severe adhesion/ Difficult to separate the part
- Bloody and dangerous to operate
- Risk of Faecal fistula
- Risk of iatrogenic injury

OCHSNER- SHERREN REGIMEN

- Ist mark the size of the swelling for further assessment
- NPO & IV Fluid supplements
- Antibiotics, Analgesics
- Temp, Pulse(4 hourly) & Fluid record charting
- Allow oral liquid on subsequent days.

CRITERIA FOR STOPPAGE OF CONSERVATIVE TREATMENT IN APPEDICULAR LUMP

- Rising pulse rate
- Rising temperature
- Increasing or spreading abdominal pain
- Increasing size of mass
- Vomiting or copious gastric aspirate