Acute Abdomen

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Objectives

• Define acute abdomen

- Describe a general approach to acute abdomen
- Discuss common causes of acute abdomen through case scenarios

Definition

Acute abdomen denotes any sudden, spontaneous, nontraumatic disorder in the abdominal area that requires urgent surgery in some cases

General Approach to Acute Abdomen

- Subjective History Taking
- Objective Physical Examination
- •Assessment Investigations
- Plan Treatment

History

Age Pain (SOCRATES) Vomiting Defecation Fever Past history

Physical Examination

- General Look
- Vital Signs
- Head & Neck
- Chest
- Abdomen
- Rectal Examination
- Vaginal Examination

Investigations

- Complete Blood Count
- Electrolytes, BUN, Creatinine
- LFTs
- Serum Amylase
- Lactate
- ABGs
- CXR
- AXR KUB
- Abdominal Ultrasound
- Abdominal CT
- Angiography / Duplex Scanning

Diagnosis

- Acute Abdomen + Shock Acute Pancreatitis/ Ruptured AAA
- Generalized Peritonitis Ruptured Viscus
- Localized Peritonitis Acute Appendicitis
- Bowel Obstruction
- Medical Causes (Lobar Pneumonia, Acute Inferior MI)

Management

- Immediate operation Ruptured AAA
- Preoperative preparation and urgent operation within 6 hours
- Urgent operation within 24 hours
- Conservative treatment
- Observation
- Discharge

A 35 year-old male presented to the ER with 2 days history of abdominal pain. He took antacids but did not help him at all!

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A 55 year-old business man presented to the ER with severe abdominal pain since 6 hours when he felt something like a burst in his abdomen. He is known with PUD and H-pylori but he was not taking his medications regularly.

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A 73 year-old male developed atrial fibrillation while recovering from an acute MI in the medical ward. The surgery team was consulted to evaluate a new onset of severe mid-abdominal pain.

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A 54 year-old lady presented to the ER complaining of generalized abdominal pain associated with vomiting, constipation for 2 days, and abdominal distention. She had an emergency Cesarean Section for her 5th baby 5 years back.

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Questions

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Summary

- Acute abdomen is a sudden abdominal disorder that requires an urgent operative intervention in some cases
- Almost all acute abdominal events have a common general surgical approach based on the nemonic SOAP
- We have applied this general approach to some case scenarios such as acute appendicitis, perforated DU, acute mesenteric ischemia, and small bowel obstruction