

CASE SCENARIO (6) - SURGERY II

32 y/o M/F, no significant PMH, presented to ER with W/O RTA

40 ~ pain on left side of CHEST & ABDOMEN

he was ~ anxious, dyspnea, [PR 115 BPM] [BP 90/60 mmHg]

ON CHEST EXAMINATION ~)

≠ ↓ Air entry on left side

≠ Hyperresonance on percussion of left side

↳ Patient
Breathes
(in situ)

(Air)
Pneumothorax

ON ABDOMINAL EXAMINATION ~)

≠ Abdomen was tender, more on the left side

≠ ~~Positive~~ Bowel sounds

specimen

QUESTIONS ~)

1. What is the primary management that you should do?

- A → airway (check the airway for any obstruction)

- B → Breathing (check O₂ Sat & give O₂ mask) + Chest tube

- C → Circulation (2 large bore cannulae, take blood for analysis & give either Normal Saline or Ringer's lactate stat. - first 10-15min ~ 2liters)

- D → Disability, support cervical spine (neck) & assess neurological function

- E → Exposure → check for the whole body for possible injuries

or
needle
thoracostomy
if pt is unstable

- +/-
- CXR → Rib fx causing pneumothorax
 - USS [FAST] → check for splenic rupture & internal haemorrhage

→ (true) → CT to assess
the splenic injury & decide
treatment plan.
(patient must be stable)

Q2: After your primary management, the patient improves, and then his pulse & BP dropper again, what is your next step?

if the patient is very unstable & not responding to medical treatment is NOT A CANDIDATE FOR LAPAROSCOPIC SURGERY } CT cannot be done to assess injury
[Exploratory Laparotomy]

Q3

P.S. if the patient can be stabilised → imaging (if not done already in step 1) the laparoscopic splenectomy? †

Q3: If splenic ~~swa~~ injury, what is the next step?

- ≠ Assess the grade of the splenic injury (I-V)
- + consider patient's factors e.g. coagulopathy, hemodynamic stability --etc

≠ Absolute indications for splenectomy

- ▶ unconscious patient
- ▶ patient > 55 years old.
- ▶ classes III - V
5 are
- ▶ failure of non-operative Mx

OPERATIONS

(A) Splenorrhaphy

- grade I & II → Superficial Hemostatic agent
- grade III & IV → Suture repair
- grade III & IV → Absorbable mesh wrap

(B) Splenectomy



Q: What is the most important complication of splenectomy? (Overwhelming post-splenectomy infection)

OPSI is the most significant complication with highest mortality rate (>50%)

① incidence → 1-5%

② caused by capsulated bacteria

- S. pneumoniae (50-90%)

- H. influenzae

- Meningococcus

- Salmonella

1 in 300
adults = 1 in 200

③ more common in children & immunocompromised patients.

④ most frequently in the first 5 years, with the first two years being the greatest risk

Risk Factors

① cause of splenectomy, immune status & interval from surgery.

② Higher incidence after splenectomy for ~~leukaemia~~ malignancy

③ Children age group

1:300

Qs: What shall you do to avoid the late complications

≠ vaccines

• Ideally when elective → 2 weeks prior to surgery

PPSV23 // H. influenzae // Meningococcal polysaccharide.

≠ Revaccination is controversial except for PPSV23 in high risk patients

Antibiotic prophylaxis

≠ PCN prophylaxis in children is common

≠ no data on ~~act~~ actually ↓ risk of QPSI

Parent's Education.

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