

emergency and spleen

A 32 yr old man with no significant past medical History presents to emergency room with History of RIA, patient complaining of pain in his Left side of chest and abdomen as he crushed on Lt side door by another Car, patient was anxious, dyspneic, his pulse rate 115/min, and Bp 90/60 on chest examination he has decrease air entry on Lt side and hyper Resonance on percussion in the same side. His abdomen was tender, more on Lt side, with positive bowel sound.

- * Que: -
- ① What's the primary management you should do?
 - ② after pri management, the pt improved, and then his spits out and Bp dropped again. what's your next step?
 - ③ if there's splenic injury what's your next step?
 - ④ What's the most important complication of splenectomy?
 - ⑤ what you should do to avoid late complication?

* Answer the Que: -

- ① ABCDE identification and treatment of life threatening condition: A → airway with cervical spine precaution B → breathing C → circulation.
D → Disability
E → exposure.
- wide pore
Canulere
- good IV
Fluid

① breathing → patient have tension pneumothorax
So Do chest tube if open pneumothorax

but if tension do needle decompression → intercostal tube

① [A] → ① inspect any FB ② exam for stidor, hoarseness, gurgling; pooled secretion or blood

→ Assume C: spine injury in patient with multiple trauma

- C: spine clearance is both clinical and Radiological
- C: collar should remain in place until patient can cooperate with clinical exam

* airway intervention → ① Supplemental oxygen ② suction
③ chin lift / jaw thrust ④ oral / nasal airway
⑤ Definitive airway BSI (Rapid sequence intubation)
ETI for comatose patient GCS < 8

② [B] → Inspect, palpate, auscultate.

- Deviated trachea, crepitus, flail chest, sucking chest wound, absence of breath sound.

→ CXR to evaluate lung fields.

if there crepitus → subcutaneous emphysema

paradoxical breathing

* Breathing intervention: -

- * ventilate with 100% oxygen
- * needle decompression if tension pneumothorax suspected
- * chest tube for pneumothorax / hemothorax
- * occlusive dressing to sucking chest wound
- * if intubated evaluate ETT position.

* IC → * Hemorrhagic shock should be assumed in any hypotensive trauma patient

* Rapid assessment of hemodynamic status.

① level of consciousness

② skin color ③ pulses in 4 extremities ④ Bp and pulse.

* Circulation intervention: -

- Cardiac monitor
- apply pressure to site of external hemorrhage.
- establish IV access.

2 large bore IVs
central line if indicated

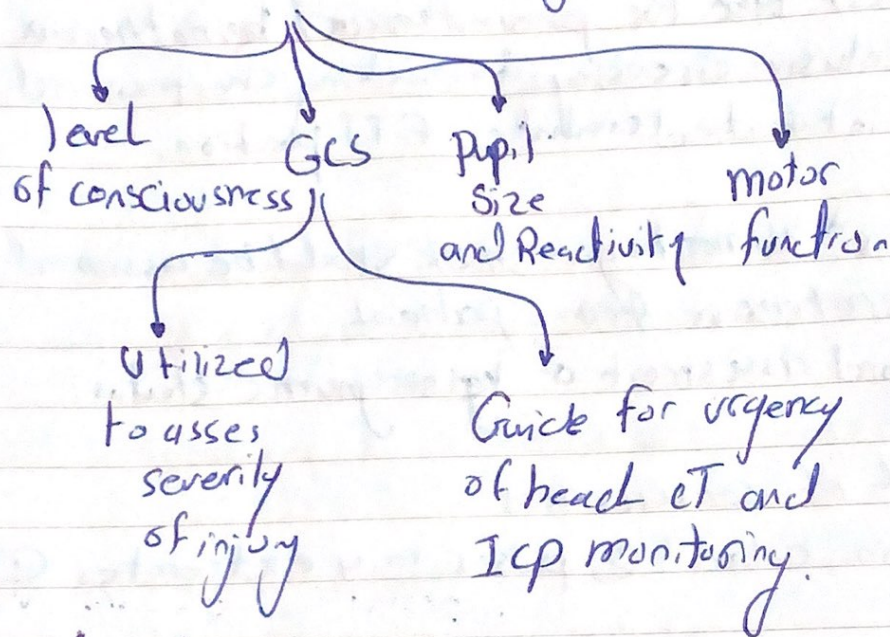
- cardiac tamponade decompression if indicated
- volume Resuscitation.

① have blood ready if needed

② level one infusers available

③ Foley catheter to monitor Resuscitation.

* [D] → * abbreviated neurological exam.



* Disability interventions:-

- ① spinal cord injury high dose steroid if within 8 hr
- ② ICP monitor → neurosurgical consultation
- ③ if elevated ICP:
 - Head of bed elevated
 - mannitol → hyperventilation → emergent decompression.

* [E] → * complete disabling of pt

- * logroll to inspect back
- * Rectal temp
- * warm blankets / external warming device to prevent hypothermia

look for abdomen → distension, tenderness, seatbelt marks, penetrating trauma, Retroperitoneal ecchymosis

x Look for ^① Kehr's sign ^② Cullen's sign ^{late} ^③ balance sign
↓
Specimen sign

x Do NOT for prevent aspiration.

x give blood banking and cross matching

x measure blood

Do FAST exam.

Focused abd scanning for trauma

4 points

cardiac

Ruq

LUQ

Suprapubic

goal evaluate for free fluid

in Morrison's pouch
bet liver and kidney.

Sec survey

- then transfer patient to operating room
- transfer to ICU.

⊖ Sec survey → allergies, medications, PMH
last meal, event

Subphysical examination, frequent assessment to vital signs

Dx study → xray, lab work, CT, FAST exam

↓
CBC / K / cr / PTT, urine, ABG

O₂ * Do ABC again.
* If not Response

↓
Circulation → 2 large pore canles → Hb for comparison
cross matching

- Urine catheter → assess Response + Blood group

→ look for chest → chest tube → gush of blood
abdomen → fast → 1500cc Decompression
pelvis → 200cc = thoracotomy
Unstable

⊗ sign of spleen injury
gocot trauma, - and site of bleeding

* and fast to know site of bleeding.

4 areas: thorax, abd, pelvic, lung

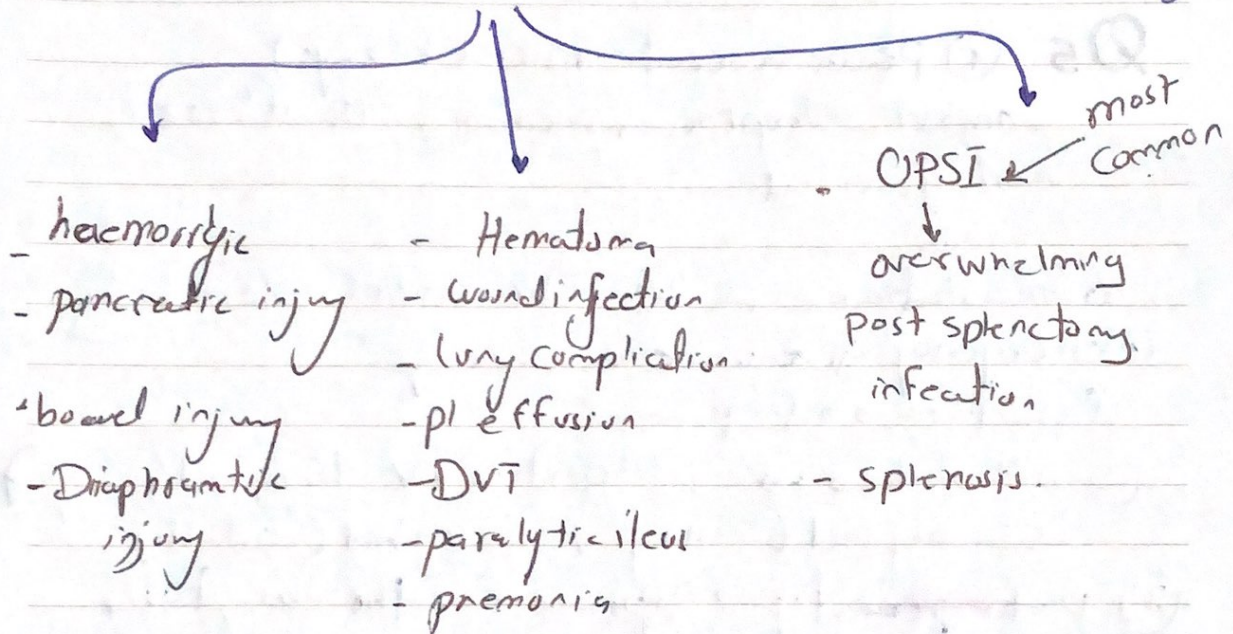
poetunum
juglus
puyh

Q3 Do splenectomy if there spleen injury.

if unstable

if stable → operation for 12 days

Q4 the most important complication of splenectomy?

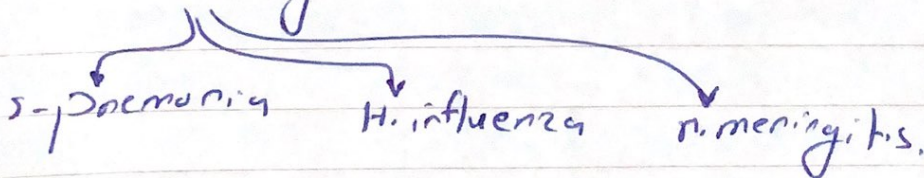


* OPSI → rapidly fatal infection following removal of spleen

- incidence 0.33, 0.42% per yr.

- occurs 1st few yrs after splenectomy.

- common organisms.



- mortality gate

50-80%

Symptom →^x start el flu like symp
x meningitis or sepsis
x Rapidly progressive 12-48hr

Q5 ① pneumococcal vaccine (>2yrs)
against streptococcus pneumoniae, Haem influenza,
meningococcal

administration el in 24-48hr after splenectomy
in emergency give vaccine 3rd day
if elective → before 2w

② antibiotics → penicillin IV 15mg bd (<3yr)
250mg bd (3-14yr) 500mg bd (adult)

③ post splenectomy → aspirin for thrombocytosis
