



COLLECTED OSCE EXAMS

General surgery

Collected by:

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020 4th Year OSCE 2023/2024

📌 1st Semester, 1st Day:

- 1. Hx. Peds: 9 months old baby complaining of abdominal pain, vomiting.**
 - take **FOCUSED** history -> 1 day duration +raises legs when crying +no stool discharge (obstipation) +billious vomit.
 - what do you look for in PEx. -> Sausage mass + dance sign (mention location)
 - give ddx.-> Intussusception
 - what investigations do you do -> ultrasound (donut/ target sign and pseudokidney).
 - what is the management -> hydration and IV fluid + npo.
 - what is the treatment (name the procedure) -> contrast enema.
- 2. Hx. 70 years old with anemia and changed bowel habits (history of melena of 1 month duration, lower abdominal pain +abdominal distention, fatigue, constipation, no weight loss or anorexia).**
 - name 1 specific investigation -> CT?, CBC?, stool blood occult?
 - ddx. -> colon cancer /diverticulitis.
- 3. PEx. Patient with colicky abdominal pain.**
 - do abdomen PEx. (Mention PR exam and inguinal, mention bowel sounds in auscultation, mention hepatomegaly palpation test).

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1st Semester, 2nd Day:

1. plastic station: burned patient (hands, torso, head)

- calculate surface: 45%
- patient has inhalation burn, what caused it? -> oedema
- amount of fluid -> (pts weight 45kg, so $40 * 45 * 45$)
- the patient complains of right upper limb pain and numbness, what is the diagnosis? How do we treat it? -> compartment syndrome (tissue ischemia), escharotomy.

2. GI station:

- take history from a patient with RUQ pain -> checklist included: pale stool, jaundice, itching, vomiting, fever, and SOCRATES obviously).
- give DDx. -> acute chole, acute cholangitis, acute pancreatitis.
- labs -> CBC, amylase/ lipase.
- imaging -> ultrasound
- give definite diagnosis -> most probably cancer somewhere.

3. Endocrine station:

- focused thyroid PEx.

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📌 1st Semester, 1st Day:

1. thyroid.
2. Lower G.I. bleeding.
3. Foreign body ingestion. (Peds)

📌 1st Semester, 2nd Day:

1. breast lump, 55 years old female

- take focused Hx. (Malignant presentation) -> ask about signs and symptoms of metastasis.
- investigations -> US, mammogram, core biopsy.
- diagnosis -> breast cancer.

2. Acute appendicitis, 20 year old, female complaints of abdominal pain and suspected appendicitis.

- take focused history.
- 4 specific signs related to appendicitis to confirm our suspicion -> rebound tenderness, psoas sign, operator sign,....
- labs -> CBC, CRP, HCG.
- images -> US, CT.
- differential diagnosis other than appendicitis (related to RIF) -> UTI, IBD, ruptured ectopic pregnancy, ovarian torsion.

3. Recurrent UTI in 3 years old female patient.

- Take focused Hx.
- images -> MAG3, DMSA, MCUG
- treatment in case the pt complain of low grade infection -> antibiotics
- diagnosis -> VUR.

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2nd Semester, 1st Day:

1. Hemangioma (plastic)
2. neuroblastoma (peds)
3. Intestinal obstruction

2nd Semester, 2nd Day:

1. Burns (plastic)
2. hydronephrosis (peds)
3. cholecystitis

018 6th Year OSCE 2023/2024

📌 1st rotation:

1) 50 year old male with reducible abdominal mass

A) Take focused history

B) What is the diagnosis? Reducible incisional hernia

2) 6 week old baby has vomiting

A) Take focused history (included risk factors)

B) What is the pertinent sign you see in physical exam?

C) What are the investigations ?

D) What are the management options?

3) Patient has crampy calf pain since 3 months after walking 300 m , that relieved by rest , patient denied trauma , no rest pain

A) diagnosis?

B) Risk factors?

C) management?

D) Indication for revascularization ?

E) Risk of limb loss in this case ?

📌 2nd rotation:

1) third degree burn

- percentage

- signs of obstruction

- indication for escharotomy in chest and neck

- advantages of early escharectomy

- percentage of fluid resuscitation in adult and child

- symptoms indicate compartment syndrome
- what is the optimal fluid resuscitation

2) 48 yo female , inferior neck mass 3 cm for 2 years duration

- focused history (mention the risk factors)
- two physical signs that indicate malignancy
- two investigations
- types of surgeries

3) 60 yo male with no medical history complaining of bleeding per rectum

- take focused history
- physical signs on general abdomen, neck and DRE

If the DRE showed a mass that is hard , 5 cm from the anal verge what is the diagnosis

- what is the diagnostic tool

3rd rotation:

1) 85 years old male patient, they mentioned brief history goes with pancreatic cancer. hb11 (another general labs I forgot them) and on CT scan was found to have an abdominal mass

- Do physical examination
- What other investigations do you want to order? CEA, CA 19-9, LFT, amylase lipase, imaging for staging?
- tell the patient's family about the prognosis? Poor prognosis
- describe what you see in the abdominal X ray
- Management

2) Mid age female with nipple discharge.

Take history

Investigations

Diagnosis

just some additional details in the nipple discharge station: it wasn't associated with a mass and the diagnosis was intraductal papilloma (makes the case kind of unexpected in terms of what to ask in the history and diagnosis)

3) Male patient presented with abdominal pain for 4 hours duration. + abdominal x ray showing sigmoid volvulus

-Take brief history

-Investigations

📌 4th rotation:

1) Patient presented with localized left lower abdominal pain.

Take focused history

Diagnosis? Acute diverticulitis

Diagnostic test? CT with IV contrast

Complications? Perforation/peritonitis, abscess

Treatment - uncomplicated? IV antibiotics

What to do on follow up? Colonoscopy (screening for colon cancer)

“61yr old male with sudden localized lower left quadrant abdominal pain came to the emergency.

1-Take focused history

2-diagnosis? Acute Diverticulitis

3-Gold standard diagnosis? CT abdomen with contrast

4-Treatment? IV antibiotics

5-What will you do for follow up? Colonoscopy

For history taking dont forget to cover colorectal cancer as a ddx. Ask about IDA, distention, blood in stool etc”

2) Peripheral vascular disease physical examination.

“73yo male smoker with a history of DM and HTN came with leg pain. Do focused physical examination and mention what you’re doing with findings.”

3) Skin cancer want to do graft

Type of graft? Full thickness skin graft

What to do to the donor area? Close approximation / direct closure

Two drawbacks? Less available, more difficult to take

Benefits over STSG? better texture, less pigmentation, more durable, better cosmetic..

Factors affecting graft take? Vascularity, barrier, infection, mobility

Signs of graft take? Adherent, pink, blanchable

“A picture of basal cell carcinoma on the forehead/scalp of an old man. With another picture of where the donor site was taken (postauricular)

1-What are the types of graft?

2-Give 4 reasons why full thickness is better than split

3-give 2 drawbacks of full thickness

4-What are causes of graft rejection

5-Give 2 signs of a successful graft”

017/018 Surgery OSCE

1st rotation

1. Neck mass

- Focused history for thyroid CA
- Investigations
- 2 modalities of treatment

2. 80 kg patient with burn (head/neck first degree, right upper limb second degree, left upper limb third degree)

- What is the percentage of burn? 18%
- Measure the amount of fluid we need to give the patient? (4*weight* percentage)
- Do we give prophylactic antibiotics? No, why? Increase the incidence of fungal infections /increase bacterial resistance /no proven evidence of decreasing the incidence of sepsis.
- Which area will need skin grafting? The third degree burn (left UL), why? Because it will heal by fibrosis.
- The patient complains of left upper limb pain and paresthesia, what is the diagnosis? Compartment syndrome (tissue ischemia), how do we treat? Escharotomy
- The patient complains of headache and confusion, what's the diagnosis? CO poisoning, how to diagnose? Carboxyhemoglobin level

3. 65 dark urine yellow sclera

- **Focused history**
- **physical**
- **labs**
- **imaging**

📌 2nd rotation

1. Patient presented with breast lump, take detailed history to know the cause. Give 3 differentials. Then questions about diagnostics management.

2. Patient presented with acute constipation, image shown for abdominal x-ray indicating bowel obstruction. take detailed history to know the cause. Then questions about diagnostics management.

3. Pregnant lady presented with chronic lower limb pain and swelling, take detailed history to know the cause (chronic venous insufficiency)

📌 3rd rotation

1. Painless obstructive jaundice: pancreatic CA (history, symptoms, labs, imaging) there was an MRCP pic asking what these structures are: pancreas and bile duct and what is the obstruction sign name called?

2- Peripheral arterial disease history, bilateral lower limb pain 63 year old diabetic and with dyslipidemia: don't forget to include disc prolapse in the DDX there was a mark on it

3- Electrical burn:

- **give 5 complications : brain injury, fracture, compartment syndrome, AKI, Arrhythmia**
- **Clinical signs for each one of the complications: dark red urine for myoglobinuria, loss of range motion, pain, deformity... etc.**
- **How to assess the fluids needed? Can't use the formula of burns percentage so instead we calculate deficit and maintenance and check urine output and vitals**

📌 4th rotation

1. 50 year old male with reducible abdominal mass

- **Take focused history**
- **What is the diagnosis? Reducible incisional hernia**

2. 6 week old baby present with vomiting

- **Take focused history (include risk factors)**
- **What is the pertinent sign you see in physical exam?**
- **What are the investigations?**
- **What are the management options?**

3. Patient has crampy calf pain since 3 months after walking 300 m, it was relieved by rest, patient denied trauma, no pain while rest

- **What is the diagnosis?**
- **Risk factors?**
- **Management?**
- **Indication for revascularization?**
- **Risk of limb loss in this case?**

📌 5th rotation

1. Case of 3rd degree inhalational burn

- **Percentage**
- **Signs of obstruction**
- **Indication for escharotomy in chest and neck**
- **Advantages of early escharotomy**
- **Percentage of fluid resuscitation in adults and children**
- **Symptoms that indicate compartment syndrome**
- **What is the optimal fluid resuscitation**

2. 48 year old female, presented with inferior central neck mass 3 cm in size of 2 years duration.

- Take focused history (mention risk factors)
- Mention 2 physical signs that indicate malignancy
- 2 further investigations
- Types of surgeries that could be done

3. 60 year old male with no medical history complaining of bleeding per rectum

- Take focused history
- Physical signs on general, abdominal, neck , & DRE
- If the DRE shows a mass that is hard, 5 cm from the anal verge, what is the diagnosis?
- What is the diagnostic tool?

6th rotation

1. gastric CA, mention:

- risk factors
- surgery type
- signs and symptoms
- What is radical gastrectomy?

2. Case of primary spontaneous pneumothorax (PSP) due to bullae in a tall thin man, mention causes, steps of Management, safe triangle borders?

3. cleft lip and palate (oral questions from the handout)

7th rotation

1. Perforated peptic ulcer

2. skin tumor

3. Intussusception

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📌 1st day 12/6

- 1.oral: Burn + acute cholecystitis
2. Hx. chronic arterial insufficiency
3. PEx. cecal tumor

📌 2nd day 13/6

- 1.oral: acute limb ischemia
2. Oral: Inguinal hernia in pediatric patient
3. Hx. Of SBO
4. PEx. Thyroid

📌 3rd day, 14/6

1. Oral: facial burn
2. Oral: Inguinal hernia (adult)
3. Hx. Thyroid cancer
4. PEx. Focused abdominal exam for RIF pain

📌 4th day, 15/6

1. Oral: RIF pain (DDx., how to differentiate and management)
- 2.Oral: 7 year old boy RTA-> (approach in the ER/ primary and secondary survey.
3. Hx. 65 year old female with a breast lump (focused)
4. PEx. Examine the lower limb to rule out peripheral arterial disease

Every previous OSCE topic:

Cardiothoracic:

1. Chronic Arterial insufficiency
2. Chronic Venous insufficiency
3. ALI (3Times)
4. LL EXAM for PAD (4 times)
5. PNEUMOTHORAX (2T)
6. LUNG CA

GI:

1. Jaundice (Ca)
2. OBSTRUCTIVE J 2T
3. Colon CA (3T)
4. Rectal CA / bleeding per rectum
5. RUQ PAIN 4T (2 from them AC CHOLINGITIS)
6. RLQ PAIN (CA)
7. RLQ PAIN
8. Appendicitis (3T)
9. DIVERTICULITIS
10. ACUTE PANCREATITIS (2T)
11. LGI BLEED
12. INTESTINAL OBSTRUCTION (2T)
13. SBO (2T)
14. GERD
15. HEMOPTYSIS
16. DYSPHAGIA (2T)

17. SPLENOMEGALY EXAMINATION
18. HEPATOMEGALY EXAMINATION (2T)
19. BOWEL OBSTRUCTION
20. PERFORATED PEPTIC ULCER
21. INTUSSUSCEPTION
22. GASTRIC CANCER
23. HERNIA

📌 ENDOCRINE: 

1. DF
2. THYROID PE
3. THYROID CANCER (NECK MASS) (2T)
4. HYPOTHYROIDISM & HYPERTHYROIDISM (2T)
5. EXAM NECK MASS (3T)
6. NECK MASS (LYMPHADENOPATHY)
7. PAROTID (2T)

📌 BREAST: 

1. HX BREAST LUMP (7T)
2. Mammogram Pic
3. LUMP EXAM 2T
4. 5 PIC (B CA, ABSCESS, AXILLARY BREAST, FISTULA , TRUE CUT BIOPSY)

📌 PEDS: 

1. FB (2T)
2. VUR
3. NEUROBLASTOMA
4. HN
5. ING H (ADULTS AND PEDS) (3T)

6. INTUSS (3T)

7. PS 3T

8. HIRSCHPRUNG

9. TEF

! PLASTIC: 

1. BURN (7T) (ELECTRICAL, FACIAL , 3rd, FLAME)

2. SYNDACTYLY

3. HAIRY NEVUS

4. SKIN CA PICS

5. SQCC

6. PRE VS POST OP GRAFT

7. RTA (ER, 1ry, 2ry Survey)

8. CLEFT LIP & PALATE