STATION 4: PHYSICAL EXAMINATION - MARKING SCHEME

Abdominal.

Item	Marks	
Introduction	1	
Consent	1	
Exposure	1	
Inspection	8	
Position of patient		
Position of the candidate		
Shape and symmetry	- Value	
Movement with respiration		
Umbilical position	1 2	
Therapeutic marks	-	
Vascular markings	A	Semu Abení Bilimbin Porthumbin
Hernial orifices	-	- Pro Hus whi
Palpation	5	AST - Aspartate
Position of the candidate	No. of the last	
Inquiries about pain Line in	10 3× C	Shot = Som - Shalasatic
Light palpation	10631	ASAT = Acpartate grains
Deep palpation		ALT = Alamone tons
Bi-manual palpation	12	ALP = Athaha phogh
Percussion	2	Game glutant from
Fluid Haill & Shift-8 dullien.		244.
Fund 1		
	2	
Auscultation	2	
Presence	The state of the s	
Renal bruit - Aortic	20	
Total	20	

PHYSICAL EXAMINATION STATION - DAY 1- EXAMINER

Introduce the patient by name and tell the candidate to perform a general examination of the patient while giving a running commentary.

We shall use an actual patient.

Patient will have at least one positive finding: edema, pallor, jaundice

Marking scheme

GIVE A MARK FOR CANDIDATES FLUENCE AND FLOW OF THE RUNNING COMMENTARY

General Examination

		Well done	average	Poor
1	Introduction	1	0.5	0
2	Approach to the patient	1	0.5	0
3	Explains procedure	1	0.5	0
4	Obtains consent	1	0	0
5	BP	2	1	0
6	Pulse rate	2	1	0
7	Respiratory Rate	2	1	0
8	Temperature	2	1	0
9	Pallor	1	0	0
10	Jaundice	1	0	0
11	Oedema	1	0	0
12	Lymphadenopathy	1	0	0
13	Cyanosis	1	0	0
14	Wasting.	1	0	0
3	Dehydration –mucous membranes	1	0	0
0	Dehydration- skin turgor	1	0	0

miner

Examine the respiratory system of the patient	
Item	
Introduction	1 110
Consent	ared
Exposure	6-41
Inspection	a Lucas
Respiratory rate	DI MOTO
Flaring of alae nasae Use of accessory muscles To 1	= Keel-shay
Violative	a turne
Chest in-drawing Chest shape and symmetry Signs of trauma/marks Distended veins Chest deformities = results in fibrotic compression of the property of the	rigidate of
Chest shape and symmetry their deformities is resulte in fisherican of	internal or
Distended veins Deformities. = Pigeon = breach bone	pushed and
	(Conta
Chest tube(side)	M= PIC
Palpation EXCAVAT	UM = FU
Chest expansion Tracked position	
Tracheal position	4
Apex beat	A Acres
	7
Chest tenderness	7
Chest tenderness Absence/presence of subcutaneous emphysema	7
Chest tenderness	7
Chest tenderness Absence/presence of subcutaneous emphysema Tactile fremitus	7
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UNIVERSITY OF NAIROBI College of Health Sciences DEPARTMENT OF CLINICAL MEDICINE AND THERAPEUTICS



VIVA MARKING SCHEME

Thyrotoxic storm

- Supportive
 - o ABC's
 - Manage fever, hydration
- Consult Endocrinologist early
- Start antithyroid treatment

 - O Dexa to inhibit hormone release from the thyroid and reduce the peripheral conversion of thyroxine to tri-iodothyronine
- Treat heart failure
- Start beta-blockade- If there is no pulmonary edema
- Thromboprophylaxis

Warfarin overdose

- If INR is > 1.5 with major bleeding or rapid reversal for surgery is needed
 - Stop warfarin
 - o Give vitamin K 5 mg IV
 - o If there is life-threateningbleeding (e.g. intracranialhemorrhage), give vitamin K10 mg IV plus prothrombin complex concentrate50 IU/kg IV
 - Recheck INR after 4 h
 - In other circumstances, givefresh frozen plasma 1 L(15 ml/kg) IV; repeat 6-hourly until INR is <1.5 and bleeding has stopped
 - Discuss management with a hematologist
- If INR is > 8 with no bleeding or minor bleeding
 - Stop warfarin
 - If there is minor bleeding or if INR is >15 (>12 in patientsover 70), and there is no mechanical prosthetic valve give vitamin K 0.5 mg IV plus fresh frozen plasma 1 L IV
 - If the patient is at increased risk of bleeding or if INR is 12-15 in patients under 70, give vitamin K 0.5 mg IV
 - o Repeat dose of vitamin K if INR remains >5 after 24 h
 - Discuss management with a Hematologist
- If INR is 6-8 with no bleeding or minor bleeding
 - Stop warfarin; restart when INR is <5
- If INR is <6 but > 0.5 units above the target value with no bleeding
 - Reduce dose or stop warfarin; restart when INR is <5

Sickle cell painful crisis

- Consult hematologist
- Relieve the pain
- Prevent/ treat hypoxemia
- Prevent / treat dehydration
- Exclude/ treat infection
- Physiotherapy
- Blood transfusion

Acute blood transfusion reaction

- Stop the transfusion, but leave the intravenous line attached
- The bag containing the transfused blood or packed calls, along with all attached labels, should not be discarded. as repeat typing and cross-matching of this unit by the blood bank will be required
- Maintain the patient's airway, blood pressure, and heart rate
- Begin an infusion of normal saline immediately to initiate a diuresis and avoid hypotension
 - Avoid the use of Ringer's lactate solution; its content of calcium may initiate clothing of any blood remaining in the intravenous line
 - Avoid dextrose-containing solutions, the dextrose may hemolyze any of the remaining red cells in the
- From the other arm, obtain a sample for a direct antiglobulin test, plasma free hemoglobin, and repeat blood typing and cross-match; Obtain a urine sample for hemoglobin testing
- Alert the blood bank immediately, and a search for clerical error should be instituted
- Alert the blood bank immediately.

 Alert the blood bank immediately an acute hemolytic transfusion reaction (AHTR) has occurred (e.g., clerical mistake, If there is any suggestion that or time, then generous fluid replacement with saline (160 to 200 mL/hour) to

- PEP regimen preferred regimen in adults is tenofovir(TDF) + lamivudine(3TC) + lopinavir/ritonavir(LPV/r) in standard doses; healthcare workers with occupational exposure who cannot tolerate LPV/r can be given 2 drugs (TDF+ 3TC) and AZT can be used instead of TDF
- Duration of PEP is 28 days
- Follow-up HIV testing at 3 and 6 months after exposure

Continued counseling and support

Acute bacterial meningitis

Stabilize airway, breathing, circulation

Empiric antibiotic therapy, IV, high dose - Vancomycin plus cefotaxime or ceftriaxone started after CSF sample obtained, change antibiotics based on culture results

Adjunctive steroids - dexamethasone 10 mg IV before or with the first dose of antibiotic therapy and continue dexamethasone 10 mg 6-hourly IV for 4 days if CSF shows gram-positive diplococci, or if blood/CSF cultures are positive for Streptococcus pneumoniae

In patients with septic shock, give low-dose steroid (hydrocortisone 50 mg 6-hourly IV + fludrocortisone 50 µg daily IV)

Fluid balance

- Monitor CVP and urine output if patient is oligure or if plasma creatinine is >200 μ mol/l
- DVT prophylaxis with stockings and LWH hepara

Prophylaxis against gastric stress ulceration with PPIs Fits - Prophylactic anticonvulsant therapy not indicated

Acute dysentery

Adequate fluid and electrolyte replacement and maintenance

None to moderate hypovolemia, treat with oral rehydration salts (ORS)

- Severe hypovolemia intravenous fluids Ringer's lactate or Ringer's lactate with 5 percent dextrose are preferred, but normal saline can also be used. Normal saline is less preferable because it does not contain potassium to replace losses nor a base to correct acidosis.
- Antibiotic therapy promptly with an antimicrobial that is effective against Shigellae ciprofloxacin; antibiotics reduce the duration of diarrhea and fever in infections caused by Shigella; If amebic dysentery due to E. histolytica is suspected based on stool microscopy, metronidazole is the usual treatment

Continuous provision of nutritious food; small meals provided frequently, as soon as the patient is able to tolerate

Diabetic ketoacidosis

- Admit to intensive care unit or high-dependency unit; monitor BP, CVP and urine output monitoring
- Fluid resuscitation
- Reduction in the plasma glucose concentration to normal
- Replenishment of electrolyte losses potassium
- Identification and treatment of the underlying cause

Acute hepatic failure

- Monitoring and general care
 - Head up
 - GCS check, if low intubate
 - o RBS checks

 - FFP, correct coagulopathy
- Manage complications
- Cerebral edema- Give mannitol
- Hypotension- Correct hypovolemia with blood or 4.5% human albumin solution;
- Oliguria/renal failure- Correct hypovolemia
- Hypoglycemia- Give glucose 10%
- Coagulopathy-Give vitamin K 10 mg IV daily, platelet transfusion if count <50 X 109/L; fresh frozen plasma only if there is active bleeding
- Gastric stress Prophylaxis
- Gastric stress Prophylaxis
 Infection- Daily culture of blood, sputum and urine, Early treatment of presumed infection with broad spectrum Infection- Daily culture of blood, sputch of antibiotic therapy: discuss with microbiologist: Consider antibiotic therapy if fever with negative blood cultures

support a urine output above 100 to 200 mL/hour should be initiated immediately, in an attempt to prevent the development of acute oliguric renal failure

If there has been massive hemolysis and clinical or laboratory signs of DIC, cautious and early heparinization (10 units/kg per hour) for the count 40 s. units/kg per hour) for the next 12 to 24 hours may be of value

A vasopressor, such as low-dose dopamine, may be required

If massive intravascular hemolysis has already occurred, hyperkalemia is likely, and cardiac monitoring and acute hemodialysis may be required

Monitor the patient's renal function and coagulation profile (eg, prothrombin time, partial thromboplastin time, fibrinogen, platelet count) frequently

Acute septic arthritis

- Adequate and timely drainage of the infected synovial fluid, send joint fluid aspirate for culture Administration of appropriate empiric antimicrobial therapy - vancomycin plus a third generation cephalosporin (ceftriaxone, ceftazidime or cefotaxime); review antibiotic after culture result
- Initial antibiotic choices must be empirical, based on the sensitivity pattern of the pathogens of the community. Consider the rise of resistance among potential bacteria when choosing an initial antibiotic regimen.
- Joint drainage
 - needle aspiration (single or multiple) for most peripheral joints,
 - o arthroscopic drainage preferred for knee, shoulder, and wrist infections, because of easier irrigation and better visualization of the joint
 - arthrotomy (open surgical drainage) preferred for hip infections
- Immobilization of the joint to control pain with rapid mobilization to prevent contractures and promote optimal nutrition to the articular cartilage
- Manage pain with analgesia

Acute respiratory failure

- Maintain patent airway
- Increase inspired oxygen concentration if needed to achieve targetarterial oxygen saturation >90% (>88% in acute exacerbation of COPD)
- Treat underlying cause and contributory factors
- If feasible, sit the patient up to improve diaphragmatic descent and increase tidal volume.
- Clear secretions: encourage cough, physiotherapy, aspiration
- Drain large pleural effusion if present
- Drain pneumothorax if present
- Optimize cardiac output, real hypotension and heart failure
- Consider ventilatory support

Severe anaemia

- Evaluate the ABCs (Airway, Breathing, and Circulation) and to treat any life-threatening conditions immediately.
- Crystalloid is the initial fluid of choice
- Acute anemia due to blood loss
 - 0 02
 - o IV access
 - Provide supplemental oxygen via nasal cannula or face-mask.
 - o GXM & Transfuse
 - o Obtain fresh frozen plasma (FFP), coagulation factors, and platelets, if indicated.
 - o Patients with hemophilia should have samples of the deficient factors sent for measurement.
- Once the patient is stabilized, begin specific measures to treat the underlying cause of bleeding.

Health-worker presenting immediately following a needle-stick injury

- Immediate care to exposure site
 - Encourage bleeding from the site but do not scrub or cut the site, washing it with soap and water
- Determine risk based on exposure type, source and material
 - High risk exposure includes percutaneousinjury (needle-stick injury)
 - High risk source includes HIV status unknown, clinically well/ unwell or HIV positive
 - High risk material includes blood and bloody fluids
- Evaluate the source and exposed person to determine risk associated with exposure
 - Assess the potential risk of infection
 - Counsel the source and exposed person for HIV testing and offer testing to both without coercion. Exposed person should not receive ARV drugs for post-exposure prophylaxis (PEP) without being tested except if immediate testing is not feasible. PEP should not be delayed since HIV testing can be done the following day
- Counseling and support should be provided to the exposed initially and continued thereafter
- HIV test should be done at baseline; other baseline tests include FBC, LFTs and renal function
- Start HIV post-exposure prophylaxis (FFF) as soon as possible (within 1 hour of exposure if possible) and definitely before 70.1 definitely before 72 hours, in the healthcare worker PEP is indicated due to the high risk exposure