

IMED. ESSAY (2018)

(a) Acute decompensation ~~to~~ failure.

(b) F - Non-compliance to medication

A - Anemia

I - Infxn infarction

L - Hypotension (card P.)

V - up-reg of CO (Pg PAE, thyrotoxicosis)

R - Renal failure

E - Embolism

(c) ECHO: MS-valvular

ECG - LAF, mitral flutter

Chest x-ray - cardiomegaly, pulmonary oedema (keels), left atrial dilation
Double shadow.

(d) 4-ths from complication or cardiac lesion

✓ Cardiogenic shock.

✓ AKI

✓ Congestive heart failure.

✓ Infxn.

✓ Endocarditis

✓ PAH.

✓ Pulmonary infxn.

(e) Principles of management

(a) Fluid retention.

(b) Oxygenation.

(c) Antimicrobial therapy

(d) Rhythm control. AF

(e) Preload & afterload.

(f) PCP:

(b) Stage 4 course of CCP

(c) In view: CD4+ count - < 200 cell/mm³

Viral load - High.

LFT - Any abnormality for drug therapy

Chest x-ray - Bilat infiltrates

FBC -

BGA - PO₂

O₂

ABG/ART

Sputum

Portocaval

Portosystemic

Murphy

(d) PR & RR.

✓ O₂

✓ ABG/ART

✓ Sputum

✓ Portocaval

✓ Murphy

P-PO₂
T- midline H/H + stroke.
P-pontine

Management for 3/2: CD4+ > 200 cells
(ARV)
PCP. Management - within 2 weeks if pt.
initial diag. of HIV (NASCET) diagnosis

(b) Cessation of smoking.

(b) Middle cerebral a. (MCA) - I PFT
CUPPPS limb reflexes & structures.

(c) Risk factors

Non-modified

Male

↑ age

Pw stroke

Modifiable

DHD

HHT

Hypertension

Smoking/Alcohol

Cardiac dx

SCD

Trombo embol

Combination OCP

Antiphospholipid

Ab

Anticoagulation

PT

(e) Principles of management

✓ Portocaval

✓ Murphy

PO₂
Arterial
Pressure
DHT 735

(d) Inox.

DM - HbA1c - control $> 6.5\%$.

HTN - BP

Hyperlipidemia - lipid profile HDL \downarrow

Cardiac dx - ECG, ECG

Coagulopathy - coagulation profile P.

(e) BP control.

✓ Thrombocytopenia $< 5-7 \times 10^9/L$

✓ Anti-phospholipid antibody

✓ O₂

✓ Optimize sugar

(f) A Gttr with C/P.
Hypothyroidism(b) P/E - hands: edema, moistened, clammy, white, HR \uparrow (110), bounding pulses, fine tremors

Respirat.

BP = narrow pulse pressure

= proximal muscle weakness

Hand: Atrophy.

Face: exophthalmos, lid lag, ptosis

Sup eyelid & left motus-Eye muscle palsy

No NPX: AM neck mass, lymphadenopathy

Skin: dermographia,

Lips - low limb edema,

Pemberton sign (flush & cyanosed)

(c) Inox. - TSH:

ul.

FNA: thyroid

Biopsy

Anti-thyroid test (AM-TPO, thyroglobulin)

(d) Tox - Drugs (metabolic)

Radiotherapy, radiation, surgery

(e) Coagulation: thrombocytopenia, minor bleeding, anti-coag.

(8) Portal HTN $> 120\text{ mmHg}$
(b) causes of portal HTN
Intra-hepatic cirrhosis, extrahepatic portal vein - cardiac failure (Rv & L),
Intrahepatic Schistosomiasis \leftarrow Portal HTN
Injury
Post hepatic - Budd-Chiari syndrome
Post-liver - veno-occlusive dz

Portal vein - thrombosis

(c) Complication - splenomegaly & CP
Splenomegaly - 80% of Pt(1) At lower end of oesophagus Portal system collateral
(P) Oesophagus trib of left gastric v. varices
(S) v. " " of Hemorrhoid v. varicose veins

(2) Around umbilicus v. varicose veins (collateral) v. varicose veins

(3) Sup & inf. rectal vein v. varicose veins

(4) Lower rectum v. varicose veins

(d) SABG. $> 110\text{ g/dl}$
Microscopy, culture & sensitivity
Biochemistry, specific gravity > 1.010
Sputum

(5) At the back of colon v. varicose veins

(e) R门脉

(5) Retropertitoneum (1) v. fluid overloading
v. sup & ing mesenteric v. varicose veins
v. varicose veins (2) PTV / bc. lymphadenopathy
v. varicose veins (3) Find & bc. underlying cause(6) ANC L. (WBC \uparrow , Hg \downarrow , pH (\leftrightarrow Granulocyte)(7) Cytogenetic test FISH
t (9; 22)

Molecular - Bcr.

BMA - hypercellular

ELC - \uparrow nuclea.

PBF - Nucleated RBC.

Hypenuclated

Neutrophil Alkaline Phosphatase
low AbsorbanceSerum B₁₂ \uparrow . (10-190)(8) Phosphorus: cationic $\frac{10}{10} \rightarrow$ Arterial
blast $> 20\%$

① (a) Superior vena cava (SVC) met ^(MC) Adrenal

Small cell ca. (Oats cell) & intermediate

- High, malignant: ASR smoking : M:E=2:1

Non-small cell ca. Squamous < smokers, male

Adenocarcinoma (non-smoker F)

Large cell ca. - on periphery of lung

C/p - cough (co?) : Horner's (70) : Dribbling (60%)

chest pain recurrent & growing lesions m/o leprosy, Anosmia, Ptsf, cutis pectoris, Anesthesia, Clubbing, Hypertrophic pul. osteoarthropathy

= wrist pain : suprascapular & Axillary nodes, BIB

(b) Icarus syndrome: pleural consolidation, cough, pleural effusion

- Foreign body aspiration (partial obstruction)
Atelectasis

Suppuration = ABX

Hodgkin's S-syndrome (pancoast tumor - APX of lung tumor)

- Enophthalmos
- Hid tag.
- Myosis
- Anhidrosis

① Inner - chest x-ray - opacity, effusion, Meleneger

HRCT - staging (CT chest, Abn, Bone scan, B-MRI, PET)

Cytology - sputum / pleural fluid

FNA / Biopsy - ^② - mediastinal lesion / h.t.

Bronchoscopy

Painful pleuritic syndrome in lung ca.

(a) ADH secretion (Hypo Nat⁺)

ACTH - Cushing syndrome

Pitressin - Pituitary peptide like hormone = Hyper ACTH

calcitonin - Hyper calc²⁺

Gastrin - Gastrinoma

Serotonin + 5H - carcinoid syndrome

Q - Definitive diagnosis:

✓ Surgical resection

✓ Radio / chemotherapy

Painful - Multidimensional

- ✓ Nutrition
- ✓ Pain
- ✓ Malignant pleuritic syndrome
- ✓ Pleurodesis wth - sclerosing agent

SVC →

IMED.

QUESTION) Causes of Portal Hypertension?

- ↑ resistance flow bdy
- Pri-hepatic - Congenital anomalies: Thrombosis of Portal vein & Sphincter of Oddi
- Indo-hepatic - Liver cirrhosis, schistosomiasis - pipe stem fibrosis.
- Post hepatic - Budd-Chiari syndrome, Venoo-occlusive dx, Cholangio dx. ✓ Constrictive pericarditis
- ✓ Valvular v@. dx
- ✓ Rgt. v@. failure,

- ↑ed portal blood flow
 - ✓ Arterial portal venous fistula
 - ✓ ↑ed splanchnic flow

5marks (b) Macrolities of fragment of brute windmill tippling 8-10 old boy

i) Respiration: (shock management) - respiration → raised blood Hg < 9.

Medical (ii) Control bleeding: octreotide, vasopressin.

(iv) Input properties \rightarrow By gut ~~ability~~ mobility

Surgical iii) Control bleeding - Endoscopy, vessel embolization

(iv) Infxn prophyaxis - PO Norfloxacin: 1xPO ciprofloxacin or ceftriaxone

Running (v) Gossypium hirsutum - white

battle
war (C) How to prevent re-depiction in pl:

Hypertension blockers prophylaxis es Propranolol.

- The mouse is *Sebastodes* eq preirregular (All species) *Oreomystis*
s. mansonii

Meteorite.

2) 2711 Arun, 15yrs, wt loss, heat intolerance. S' not reflexed
Hyperthyroidism probably due to

Dissolved in D₂O. Toxic to HAP.

Gloss

Нашимо
with - нурт
Нурт

• NochWerk.com

4784 195

• ११७५.

TFT + TSH ↑ TgB↑ ^{per se} ^{HbO₂}
 Uts or goitre - (TIR) ^{Malignant} - Hypoechogenic, Microcalcification, Inv. caps.
 FNA - cytology. - Stp. Benign tumor. ^{Thy1 - Non-dx}
 ECB - Rule out AF. ^{No dx} ^{o - Echogenic}

LITERATUR

Has 103 expected clinical signs

GIA-Alleleic HNMB - Focal tumor - Tachyarrhythmia, syncope
- Caudate - Encephalitis - Headache, pain pressure
- Dura - Sialitis, edema - Hypotension, proximal sensory

protrusion of tongue not necessary

SUPER	JINED
GROWTH PLATE	• Neck - Inspection if Mass
✓ Resting	Palpation
Assessment	
- Hypertrophy (SUPER)	Perfusion - If RHYTHMICAL
Mechanism	Asciulation.
Classification	(d) Therapeutic option. Natural Growthspurts.
	Radioiodide I_{131} - Tx.
	2. II Surgical

30) Nrb resident goes to Kisumu for 3/52; Rigors, Headache, Abdominal & loose motions

DDx: Malaria

Fin

Typhoid fever

Gastroenteritis

* Malaria, Meningitis?

Investigations to make abv diagnosis

✓ Thin film → species

Thick film Malaria → Plasmodia

✓ PBF - Troponin, lactate (malaria)

✓ Stool - for microscopy, culture & sensitivity

✓ FBC - Hb (Anemia) wbc (infxn)

✓ URTIs - Electrolyte imbalance, due D, tox (HIV - meningitis)

LFT
CBF. microscopy & culture sensitivity

* Rule out meningitis

RBS - Hypoglycemia in Malaria

Drug screen

4th fibres for opportunistic (TB, F, TB, EXTRAS).

Cerebral haemorrhage.

Trauma

Obesity

Metabolic (Endocrin def)

Genetics

Occupational

Mimicry of Arthritis: Conservative.

- Physiotherapy

- Lifestyle, Diet, occupation

- Pain relief COX2, NSAID

- Walker/cane? Nutritional support

Constricting Supt

Inj - corticosteroids

- Viscosupplements

Surgery: Joint preserve

- Joint fusion

- Arthroscopy

Joint replacement - Adhesive

Total joint arthroplasty, high tibiae

Mo Tu We Th Fr Sa Su

Date: / /

IMRD.

60yr F. Clp with features of Peptic ulcer
Def - Bk in epithelial lining by 7 5mm

Clp. Abd pain, burning & gnawing radiates to the back, worse by hunger, 1-2hr after meal, relieved with milk/antacids

N & wgt loss.

✓ Psychological survey

Causes: H. pylori

✓ Infxn; DMV

NSAID & Aspirin, steroids, SSRI ✓ Diet - Eg Alcohol, Tomato

Gastric acid Hypersecretory state

✓ Zollinger Ellison Syndrome ✓ Gastrinoma
N idiopathic Serum gastrin levels measured

Risk factors: Smoking, Genetic / Blood grp O, Chronic dx x R/F, liver cirrhosis, ↑ gastric Bmpys inj

Test to confirm ulcer: Barium meal.

Endoscopy, MRE.

Causative factor test: Hx of usd of NSAIDs.

Non-invasive test

✓ Serologic IgG Ab.

✓ Urine breath test.

(stop NSAIDs to avoid false pos)

✓ Stool H-pylori Ag test

- Biopsy - To exclude Malignancy

Invasive test

✓ Rapid urease test
Yellow to red

✓ Histology H&E
Stain Special for H-pylori
Genta-stain

✓ Culture for antibiotic sensitivity

Mo Tu We Th Fr Sa Su

AUARMS - SYMPTOMS IN PUD

Date: - onset of symptoms after 45yrs.

A Anemia (IDA)

L Vomiting / loss of weight

A Anorexia, Recurrent v.

R Revert bowel / proct. signs

Family his of malignancy

M Melena / Hematemesis

Poor response to medical

S Swallowing diff.

Other: odynopatia, palpable

Mus. Inundation rule

but malignancy

(b) Gofrey's Meningitis

TG: Principle: Relieve first - Antibiotics, stop NSAIDs

Hazl ulcer - H. pylori TG, PPI, H₂ blocker

Prev Complication;

P&PV Requirements by lifestyle modification

(b) Community Meningitis

Common CA bact meningitis Adults

✓ Neisseria Meningitidis (1)

✓ Streptococcus pneumoniae (2)

✓ Group B streptococcus

✓ Haemophilus influenzae (6)

✓ Legionella Monocytogenes (3)

✓ Gram neg bacilli < E. coli & Salmonella,

✓ Staph. aureus (5)

✓ Mycobacterium (4)

Mo	Tu	We	Th	Fr	Sa	Su
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Date: / /

(b) Investigation.

CSF - Biochemistry, Microbiology,
Culture & Sensitivity

CT - Exclude ↑ ICP by LP done.

PCR - Blood & CSF → to detect: bacterial DNA.

Blood Cultures

CRP, ESR, Procalcitonin (↑ ABN)

(c) Rx of Meningitis Adult

14-21 days

Ceftriaxone 2g IV 12hrly (MRSA) Add vancomycin

Antibiotics dep. on causative Ag.

• Supportive for ICP, shock, ARDS as indicated

• Fluid (may need restrictions) & Electrolyte.

• Consultation

• Anticonvulsant therapy (Diazepam 11 orally-
Zepam, phenytoin)• ↑ ICP - Evaluate, intubate, Hyperventilation
IV fluids

Mo Tu We Th Fr Sa Su

Date :

IMED ESSAY (1)

(1). clp. Cough, Ryt Sided chest pain, SOB & FEVER

Sputum Rusty Brown.

(a) DDx. → Pneumonia
confusion, tachypnoea, tachycardia, HR > 30

(b), Inverx

CURB 6571

Lab: FBC - ↑ WBC leukocytosis

U&G - URG > Transf.

Sputum - Nuclei

& Rule out TB - Spun gram stain

Imaging.

Chest X-ray.

(c) Management.

Support. management: O₂.

Analgesics

IV fluids < Dextro 1 shock

Chest tube if effusion.

Definitive: Amoxycillin 5. - 9 mg.

Prior 3/12 Augmentation + Clarythromycin

Dermatological
Mechanical
Heliopathic rash.

Mo Tu We Th Fr Sa Su

Hertzen (DIP-) Bocart (DD.)
PIP - RA, O.A. (D.A.)
Date _____

Essay 1

① 65+ Bone pain, tender, Hg 6.5 g/dl, pleura
No normocytic - normochromic, ESR 90 mm/HR.

DDr- MN

Ca prostate (malignant)

Osteoporosis

TB SPINE

Leukemia

RA.

Inves.: Serum elektrophoresis - β - Microglobulin

FBC ↓

LDH & uric acid ↑

PBF - Rouleaux formation

uric acid ↑ + ↑ X-ray - skull, long bones

TB SPINE - MRI.

② Risk factor for 1° O.A.

✓ Obesity

✓ Hx of trauma

✓ A.S.P.

✓ Family. h.c.

✓ Gender - F.

✓

(b) Management of arthritis

Definitive - Total / Partial Hip replacement

Conservative - NSAIDS

steroids

Pleural effusion \rightarrow Jaundice
Jaundice \rightarrow Fatty liver
Fatty liver \rightarrow Pleural effusion
Pleural effusion \rightarrow Anaemia

Mo Tu We Th Fr Sa Su

Date: / /

④ Acute decompensated failure

F - Failure to take med

A - Anaemia / Arrhythmia

I - Infxn, Infect

L - Lifestyle Δ

U - Unusual 'uppers': thyrotoxicosis, Pg

R - Renal failure

E - Embolism / Electrolyte imbs

S - MS (stenosis)

Inputs: Lab: FHG - Hgt WBC \downarrow .

U/EIC - urea \uparrow .

Urgent profile.

Thyroid panel.

D Dimples - P/R

Imaging: chest - X-ray

ECHO.

ECG.

⑤ Kisumu 3wk: slp fever, rigor, headache, rib pain

loose motion: Gvt Confused & neck pain

✓ Meningitis

✓ PUPPP Malana,

✓ GE.

Inputs: FHG - Hgt, WBC \uparrow

✓ HIV test ✓ PBP

✓ RHINOCORY

✓ Glucose (must do for screening)

✓ Thick / thin film

✓ Lumbar puncture

✓ CT skin b/g LP.

✓ Stool - M/cls

1° Hyperthyroidism: ↓ TSH ↑ T₄ & T₃

2° " : ↑ TSH ↑ T₄ & T₃

Mo Tu We Th Fr Sa Su

Date:

DDx: Goitre with features of Hyperthyroid likely
Graves' disease

Hypothyroidism: TSH & TPO Ab (↓) Anti-thyroglobulin & Anti-TPO (\uparrow) Thyroperoxidase

Pre-treatment
Mild edema
Widely spaced eyes
Assume: Graves' disease

- Anti TSH receptor (\uparrow) (Main in Graves)

Other causes: Urticaria - Prostaglandin

Graves FNA cytology

Nerves affect L. INFERIOR rectus & Superior rectus

(Krebs

0 - No SIs

I - Only SIS

2 - Periorbital oedema, ptosis & exophthalmos

3 -

4 - Exo

5 -

① Portal HTN

(1) ↑ resistance to flow

(A) Pre-hepatic - congenital atresia / stenosis
- Thrombosis of portal vein

- Thrombosis of splenic vein

- Extrinsic compression (tumor)

Mo	Tu	We	Th	Fr	Sa	Su
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Date : / /

Initial hepatic - liver cirrhosis

- schistosomal peri portal fibrosis

Post-hepatic - Budd-Chiari syndrome

Veno-occlusive dx.

Cardiac dx.

② ↑ed portal blood flow

(a) Aterio-portal venous fistula.

(b) ↑ed splenic flow.