

[LE 0414]

APRIL 2014

Sub. Code: 1002

**FELLOWSHIP IN CRITICAL CARE MEDICINE
FINAL YEAR
(Candidates admitted 2012-2013)
PAPER II – CRITICAL CARE MANAGEMENT**

Q.P. Code :231002

Time : 3 hours

Maximum : 100 marks

Answer All Questions

I. Elaborate on :

(2 X 20=40)

1. Classify the common Neuromuscular causes of Respiratory Failure seen in ICU set up? Discuss Etiology, pathophysiology and Management aspects of a case of Guillain-Barre Syndrome.
2. Discuss various causes of jaundice during Pregnancy and their complications? How will you manage a case of Hepatic Encephalopathy?

II. Write Short Notes on:

(10 X 6 = 60)

1. Enlist common causes of New onset encephalopathy in an ICU patient- How will you manage a 55 year old male admitted for management of acute CVA/ on mechanical ventilation- now developed worsening conscious level after 3 days of hospitalization?
2. Discuss various causes of fever in ICU patients(both infectious and non- infectious) Write a short notes on Serotonin Syndrome.
3. What are the different categories of hypertensive crisis? Describe in brief the evaluation and management of a patient presenting with High blood pressure?
4. What are treatment modalities of Acute oliguric renal failure? When will you suspect abdominal compartment syndrome? What is its clinical importance? What are the management options?
5. Discuss in brief the Types, manifestation, investigation and treatment of Hyponatremia?
6. What are the common causes of weaning failure and how will you manage it?
7. Discuss the value of measuring Serum Electrolytes in ICU patients?
8. What are the causes of coagulopathy and how will you treat them?
9. What are the types of tracheostomy? What are the common indications? What are the immediate and late complications anticipated and its management?
10. Write short notes on Thrombolytic therapy in Acute MI?

[LF 1014]

OCTOBER 2014

Sub. Code: 1002

**FELLOWSHIP IN CRITICAL CARE MEDICINE EXAMS
FINAL YEAR
(Candidates admitted 2012-2013)
PAPER II - CRITICAL CARE MANAGEMENT**

Q.P. Code :231002

Time : Three hours

Maximum : 100 marks

I. Elaborate on : **(2 x 20=40)**

1. A 62 yr. female patient with Carcinoma larynx on a recently done tracheostomy developed fever and signs of aspiration. Her chest skiagram revealed left massive atelectasis and patient had tachycardia with desaturation. She also developed shock. How will you manage this patient?
2. A 20 yr. old adult presented with history of ingestion of 100 tablets of AMLONG – AT (Amlodipne and Atenolol) to CCU. How to resuscitate, decontaminate and manage complications arising out of it?

II. Write notes on: **(10 x 6 = 60)**

1. Define Hypertensive Emergencies and List complications that are preventable.
2. Parenteral Nutrition – Products and complications on adopting it.
3. Syndromic approach to Critical Tropical Infections.
4. Prevention Strategies of Ventilation Associated Pneumonia (VAP).
5. Single Nucleotide Polymorphism (SNP) in Heat Shock Protein-70 (HSP70) gene and sepsis adverse outcome.
6. Dexmedetomidine.
7. Upper Gastro-intestinal Bleed management.
8. Do Not Resuscitate (DNR) and Issues.
9. Differntial Diagnosis of Acute Flaccid Paralysis and management of Hypokalemic Periodic Paralysis.
10. High – Anion Gap Metabolic Acidosis.

[LG 0415]

APRIL 2015

Sub. Code: 1002

**FELLOWSHIP IN CRITICAL CARE MEDICINE EXAMS
FINAL YEAR
(Candidates admitted 2012-2013)
PAPER II - CRITICAL CARE MANAGEMENT**

Q.P. Code :231002

Time : Three hours

Maximum : 100 marks

I. Elaborate on :

(2 x 20=40)

1. Define and describe elaborately Risk factors, Diagnosis with Staging, Treatment and Prevention of Decubitus ulcer's.
2. An young girl presents to CCU with history of ingestion of 10ml of Oil of Wintergreen. She has severe respiratory distress and shock. How will you manage this patient in CCU?

II. Write notes on:

(10 x 6 = 60)

1. Enumerate Risk factors and Prevention of VTE (Venous Thrombo Embolism).
2. Perioperative Hypertension management.
3. Management of Unstable Angina.
4. Lung Protective Ventilatory strategies in ARDS.
5. Difficult Airway Etiology and Management.
6. Management of Anti-Snake Venom induced Anaphylaxis.
7. Vasopressin
8. Brief on EGDT (Early Goal Directed Therapy).
9. Hypochloremic Metabolic Alkalosis.
10. Apnoea Test

**FELLOWSHIP IN CRITICAL CARE MEDICINE EXAMS
FINAL YEAR
PAPER II - CRITICAL CARE MANAGEMENT**

Q.P. Code :231002

Time : Three hours

Maximum : 100 Marks

I. Elaborate on :

(2 x 20 = 40)

1. A 30 year old farmer is found unconscious in his room and brought to the emergency room (ER) by his family. They have also brought an empty bottle of pesticide with them. On arrival to the ER he is found to be covered in vomitus and is agitated. He is sweating, his pupils are constricted and his pulse rate is 40/min with a blood pressure of 160/90 mm Hg.
 - a) List the possible chemicals he could have consumed based on the toxidrome provided.
 - b) Describe the immediate general care you would provide to this patient.
 - c) Discuss the pathophysiology and the specific treatment for organophosphorus poisoning.
2. A 50 year old gentleman with chronic liver disease with cirrhosis is brought to the intensive care unit (ICU) in a drowsy and confused state. His family tells that he has been binge drinking for the previous three days with very little food intake.
 - a) List the differential diagnosis to be considered for his altered mental status.
 - b) Discuss the precipitating factors, pathophysiology, grading, management and prognosis of patients with cirrhosis admitted to the ICU with hepatic encephalopathy.

II. Write notes on:

(10 x 6 = 60)

1. Discuss the role of mechanical thrombectomy in acute ischemic stroke.
2. What is targeted temperature management? How is it done and what are its clinical applications?
3. What is damage control resuscitation? What are its components and how are they done?
4. Discuss medical management of raised intra cranial pressure (ICP).
5. Describe the non ventilatory management of a patient with ARDS.
6. What are the indications for use of non invasive ventilation (NIV)? Discuss when NIV is indicated in a patient with COPD exacerbation and how it is set up.
7. Enlist the various methods used to assess preload responsiveness and describe how a "passive leg rising" (PLR) test is done and interpreted.
8. Discuss the management of NSTEMI in the intensive care unit.
9. Discuss the management of hyperkalemia.
10. Elaborate the steps you would take to wean a patient off a ventilator?

[LN 1018]

OCTOBER 2018

Sub. Code: 1002

**FELLOWSHIP IN CRITICAL CARE MEDICINE EXAMS
FINAL YEAR
PAPER II – CRITICAL CARE MANAGEMENT**

Q.P. Code :231002

Time : Three hours

Maximum : 100 Marks

I. Elaborate on: **(2 x 20=40)**

1. A 50 year old known diabetic comes to the OPD with altered sensorium, fever, dehydration and laboured breathing. Discuss the causes, investigations and management.
2. Discuss the aetiology, pathology, clinical features and management of acute coronary syndrome.

II. Write notes on: **(10 x 6 = 60)**

1. Prophylaxis for DVT (Deep Vein Thrombosis).
2. Management of ARDS.
3. RRT (Renal replacement therapy).
4. Role of FFP (Fresh frozen plasma) in critical care setup.
5. Neuroleptic malignant syndrome.
6. Bee sting clinical features and management.
7. Causes of acute confusional state.
8. Medical management of SVT (supraventricular tachycardia).
9. Role of mannitol in critical care medicine.
10. Discuss on barotrauma disease.

[LO 0519]

MAY 2019

Sub. Code: 1002

**FELLOWSHIP IN CRITICAL CARE MEDICINE EXAMS
FINAL YEAR
PAPER II – CRITICAL CARE MANAGEMENT**

Q.P. Code :231002

Time : Three hours

Maximum : 100 Marks

I. Elaborate on:

(2 x 20=40)

1. Mr. Palani is a chronic alcoholic with no diabetes. After a large intake of liquor, he had several bouts of vomiting. On physical examination, he responded only to painful stimuli. He had a low blood pressure and tachycardia. Acetone was not detected on his breath. The following laboratory values are obtained. Glucose-2.5mmol/L, Na^+ -116mmol/L, K^+ -3.5mmol/L, Cl^- -66mmol/L, P_{Hco_3} -15mmol/L, Pco_2 -30mmHg, Creatinine-2.0mg/dL, Albumin-4.5 gm/dL, BUN(Urea)-10 mg/dL((28mmol/L)
 - a. How will assess the acid base disorder in the above mentioned scenario and how will you manage the patient? What is the significance of low blood glucose?
2. A farmer was brought to the ER with unconscious state with respiratory distress. O/E two fang marks present in the right ankle with skin discolorations and oozing of blood. How will you manage this scenario?

II. Write notes on:

(10 x 6 = 60)

1. What are shockable and non-shockable cardiac rhythms and discuss the management shockable cardiac rhythms?
2. Write briefly on operating principles involved in the pulse oximetry and list the applications of pulse oximeter.
3. Discuss about the factors that interfere critical care cost of the patient and how will you control?
4. How will manage a patient with acute on chronic obstructive airway disease (COPD)?
5. Write the causes and management of pulmonary edema.
6. Discuss the local anaesthetic drug toxicity.
7. Discuss the management of DIC (Disseminated intravascular coagulation).
8. Write about hypertensive encephalopathy.
9. What are the indications, contraindications and complications of Lumbar puncture? And add a note on the technique of Lumbar puncture.
10. TRALI (Transfusion related lung injury).
