

Rajiv Gandhi University of Health Sciences, Karnataka Fellowship Examination - 08-Sep-2023

Time: Three Hours Max. Marks: 100 Marks

PAEDIATRIC INTENSIVE CARE - PAPER - II OP Code: 4144

Your answers should be specific to the questions asked. Draw neat, labeled diagrams wherever necessary.

Answer All The Questions

10 X 10 = 100 Marks

- You are the team leader on the cardiac arrest team. What are your roles and what are the priorities of cardiac arrest management which you must help implement?
- Your intensive care unit has had a noticeable increase in the rate of ventilator associated pneumonia (VAP). A number of cases involve multi – resistant organisms.
 - Outline the strategies you would recommend implementing in your unit in an effort to reduce the incidence of VAP.
 - Explain the rationale for each recommended quality improvement strategy in your answer.
- Critically evaluate the role of vasopressin in septic shock.
- With respect to positive end expiratory pressure (PEEP) in a ventilated patient with acute respiratory distress syndrome (ARDS).
 - Describe the possible approaches to setting PEEP
 - List the disadvantages of excessive PEEP in this situation.
- Outline the pathophysiology and clinical features of a smoke inhalation injury in a patient with major burns.
- List the factors that result in failed resolution of sepsis despite antibiotic therapy.
- Regarding to standardized mortality ratio:
 - a. What is a standardized mortality ratio (SMR) and how is it calculated?
 - The SMR in your ICU has increased from 0.95 to 10.5 in the past 12 months outline the possible causes.
- Define tumour lysis syndrome. List the risk factors associated with its development outline measures to prevent it an provided a rationale for the use of each of those measures.
- With respect to trans-pulmonary pressure (TPP).
 - a. Explain what is meant by the phrase "trans-pulmonary pressure (TPP).
 - b. Describe the techniques of measurement, including any limitations.
 - Discuss the rationale for its clinical use
 - Briefly outline the evidence for its role in the management of patients with acute respiratory distress syndrome (ARDS).
- What are the indications for decompressive Craniectomy? Briefly outline the complications of decompressive craniectomy. Comment briefly on the outcome from decompressive craniectomy.

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