Exam Objective: To measure the overall level of clinical knowledge of the Registered Nurse in the area of the PICU.

Knowledge Domains - PICU Exam

- Critical Thinking: 8%
- General Knowledge: 24%
- IV Flow Rate Calculations: 21%
- Medication Administration: 3%
- Specialty Skill Assessment: 5%
- Standard Precautions: 39%
I. Critical Thinking
   A. Knowledge of prioritization related to pediatric resuscitation.
   B. Knowledge of thermoregulatory mechanisms in the pediatric population.

II. General Knowledge
   A. Knowledge of pathophysiology in the pediatric population.
   B. Knowledge of ETT selection criteria and care in the pediatric population.
   C. Knowledge of pulse oximetry.
   D. Knowledge of performing assessments for the pediatric population.
   E. Knowledge of N/G Tube placement in the pediatric patient.
   F. Knowledge of suctioning the pediatric patient.
   G. Knowledge of cardiopulmonary assessment in the pediatric patient.
   H. Knowledge of infection control.

III. IV Flow Rate Calculations
   A. Knowledge of IV Flow Rate Calculations for the pediatric patient.

IV. Medication Administration
   A. Knowledge of IV Fluids commonly administered in the pediatric patient.
   B. Knowledge of PALS medications for the pediatric patient.
   C. Knowledge of pediatric dosage calculations.
   D. Knowledge of treatment protocols for the hypotensive pediatric patient.
   E. Knowledge of maintenance fluids for the pediatric patient.
V. Specialty Skill Assessment
   A. Knowledge of integumentary assessment in the pediatric population.
   B. Knowledge of artificial airway maintenance in the pediatric population.
   C. Knowledge of fractures in the pediatric population.
   D. Knowledge of provision of care for the pediatric neurological patient.
   E. Knowledge of cardiopulmonary assessment in the pediatric population.
   F. Knowledge of performing initial assessment in the pediatric population.

VI. Standard Precautions
   A. Knowledge of Standard Precaution components

ADVANCED CALCULATION FORMULAS

mcg/kg/min

Dose in mcg/kg/min the patient is receiving based on Infusion Rate on pump:
Concentration Available (mg) \( \times \) 1000 (to convert to mcg) \( \div \) Volume Available (mL) \( \div \)
60 min/hr \( \div \) Weight (kg) \( \times \) Infusion Rate on IV Pump (mL/hr) = ___ mcg/kg/min
Example:
___mg \( \times \) 1000 mcg \( \div \) ___mL \( \div \) 60 min/hr \( \div \) ___kg \( \times \) ___mL/hr = ___mcg/kg/min

Rate to infuse on IV pump based on ordered dosage in mcg/kg/min:
___ mcg/kg/min \( \times \) ___ mL in bag \( \times \) 60 min/hr \( \times \) ___ wt in kg
___ mg in bag \( \times \) 1000

= ___ mL/hr to infuse

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