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Paediatric Critical Care Ventilation Infusion and Transfusion Observation

Practical 04 / Skills laboratory

Aim

Record child or neonatal intensive-care observations and verify model respiratory and infusion support.

Principle

Age-specific equipment, prescribed settings and trained monitoring reduce risk during intensive care.

Articles and Materials

- PICU or neonatal ventilator and suction trainers
- Dummy pump, parenteral nutrition and exchange transfusion case records

Procedure

1. Confirm patient, age, weight, diagnosis, airway, prescribed support and baseline vital observations. Clarify the learner's allowed role.
2. Trace the airway device, confirm securement, oxygen and ventilator settings and assess chest movement and saturation. Check alarm and backup readiness.
3. For endotracheal suction or chest physiotherapy follow the prescribed indication and supervisor's trained model technique. Reassess respiratory response promptly.
4. Verify authorised medication and fluid calculations, pump rate, prescribed lumen and line security. Check the dummy parenteral nutrition label and route.
5. In the exchange transfusion case observe the trained verification and monitoring workflow, checking identity, components, serial observations and recording roles.
6. Assess the patient first if a model alarm occurs. Call the appropriate team and review breathing, perfusion, tubing and action according to the scenario.
7. Reassess intake, output, skin or access, symptoms and measured response and document the ongoing plan.
8. Give a timed handover with device settings, critical values, changes, actions and pending review.

Precautions

- Use verified settings and model equipment.
- Refer specialist procedures and treatment changes to the authorised team.

Observations and Record

Paediatric Critical Care Ventilation Infusion and Transfusion Observation

Documentation

Item	What to record	Why it matters
Respiratory support	Airway, settings and clinical response	Detects risk
Therapy	Order, checks and fluid balance	Supports accuracy
Escalation	Alarm, findings and recipient	Enables timely care

Worked Example

The model ventilator alarms and chest movement drops. The student activates support, reassesses ventilation and communicates findings before investigating the device.

Result and Evaluation

Demonstrate coordinated model intensive-care monitoring and correct handover of urgent changes.

Viva Questions and Answers

Why record both ventilator settings and patient findings?

A setting alone does not show what support the child is receiving.

Why verify a parenteral nutrition line?

It helps prevent wrong-route or incompatible administration.

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