

# CRITICAL CARE NURSING

## Circulatory Assist Devices

↓ workload on heart and ↑ perfusion

**IABP** → ↓ afterload + Systolic pressure

a sausage shaped balloon + pump that is controlled by a control panel. Balloon is inserted into the femoral artery and then moved to the descending thoracic artery.

Balloon inflates during diastole + deflates during Sys

- ↑ diastolic pressure
- ↑ coronary artery perfusion
- improved O<sub>2</sub> delivery + myocardium
- ↓ angina, ↓ ischemia
- ↓ afterload
- peak systolic pressure
- ↓ stroke volume
- ↓ cardiac output

**Ind:** unstable angina, up to 14 days of therapy  
Acute MI, bridge to cardiac surgery

**C/I:** irreversible brain injury, D/C, AAA, thoracic aortic aneurysm, peripheral vascular disease

**Complication:** dislodgement of plaque, aortic dissection, ↓ platelets, thrombocytopenia, infection

**VAD** → heart replaces action of Ventricle

**Ind:** failure to wean from CPB, HF caused by MI, patients awaiting heart transplant

**Nursing:** observe for bleeding, tamponade, infection, renal failure and thromboembolism.  
Implement activity plan. Provide teaching + emotional support to caregivers

## ET INTUBATION

**Ind:** upper airway obstruction, apnea, high risk of aspiration, ineffective secretion, severe respiratory distress

**Sign:** Humidifier tube placement, maintain proper cuff inflation, monitor oxygenation and ventilation, maintain patency + provide oral care  
Prevent unplanned extubation + aspiration

## SHOCK

↓ tissue perfusion

### Cardiogenic

Inadequate pumping by the heart that results in reduced cardiac output

Systolic dysfunction = ineffective pumping  
↳ ↓ SV and ↓ CO

diastolic dysfunction = ineffective filling  
↳ pulmonary edema + ↑ pulm. pressures

**S/Sx:** tachycardia, hypotension, crackles, cool clammy skin

### Hypovolemic

Loss of intravascular fluid volume

**Absolute** - hemorrhage, drainage, diuresis

**Relative** - fluid moves to extravascular space

**S/Sx:** ↑ HR, ↑ RR, ↓ SV, ↓ CVP, ↓ PAWP

## ACUTE RESPIRATORY FAILURE

Gas exchange is not functioning adequately

**Hypoxemia** = poor O<sub>2</sub> exchange → ↑ arterial O<sub>2</sub>  
PaO<sub>2</sub> < 60 mmHg

**V/Q** = ventilation vs. perfusion → Should be 1:1  
**V/Q mismatch** can impair gas exchange

**Diffusion limitation** = gas exchange is decreased due to a thickened or damaged alveoli

**Other causes:** shunt, alveolar hypoventilation

**Hyperoxemia** = excess O<sub>2</sub> retained → ↑ arterial O<sub>2</sub>

# Education Standards For Critical Care Nursing

**National Library of Medicine (U.S.)**



## **Education Standards For Critical Care Nursing:**

## Decoding **Education Standards For Critical Care Nursing**: Revealing the Captivating Potential of Verbal Expression

In a time characterized by interconnectedness and an insatiable thirst for knowledge, the captivating potential of verbal expression has emerged as a formidable force. Its capability to evoke sentiments, stimulate introspection, and incite profound transformations is genuinely awe-inspiring. Within the pages of "**Education Standards For Critical Care Nursing**," a mesmerizing literary creation penned by a celebrated wordsmith, readers embark on an enlightening odyssey, unraveling the intricate significance of language and its enduring affect our lives. In this appraisal, we shall explore the book's central themes, evaluate its distinctive writing style, and gauge its pervasive influence on the hearts and minds of its readership.

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