

HEMODYNAMIC MONITORING

Definition:

Is the bedside measurement of the ever-changing pressure of blood flow through the cardiac, pulmonary & systemic vasculature via invasive catheters.

Benefits:

- Improve patient outcome
- Lower mortality rates
- Better quality of life after critical illness

Measurement:

Direct	Indirect (calculation)
• CVP • Rt Ventricle Pressure • Pulmonary Artery P.	• Cardiac output • Cardiac Index • Lt Ventricular Ejection Fraction • Lt Atrial Pressure • Capillary Wedge P.

Tools:

Intra-Arterial Catheters (IAC)	<u>Purpose</u> • Measure MAP correctly • Draw blood for ABG • Monitor Arterial BP <u>Insertion site</u> • Radial artery • Femoral artery • Dorsalis pedis • Brachial artery • Axillary artery
Central Venous Access	<u>Purpose</u> • When peripheral site not accessible • For fluid resuscitation • CVP monitoring • Access for PAC • Monitor blood circulation
<u>Insertion site</u> • Subclavian vein • Brachial vein • Jugular vein	
Pulmonary Artery Catheter (PAC)	<u>Purpose</u> • Measure pressure in both side of heart & pulmonary artery

ACUTE LUNG INJURY (ALI)

Definition:

A systemic process of pulmonary manifestation which cause multiple organ dysfunction syndromes. Severe ALI is known as Acute Respiratory Distress Syndrome (ARDS).

Clinical Manifestation:

Exudative phase	Fibroproliferative phase
• Tachypnea • Restlessness • Anxiety • Use accessory muscles	• Agitation • Dyspnea • Fatigue • Use accessory muscle excessively • Fine crackles

Risk factors:

Direct	Indirect
• Aspiration • Drowning • Toxic inhalation • Pulmonary contusion • Pneumonia • Oxygen toxicity	• Sepsis • Trauma • Hypertransfusion • CABG • Severe pancreatitis • Embolism • Shock

Pathophysiology

After direct/indirect injury, inflammatory-immune system is stimulated

Inflammatory mediators released from the site

Causes neutrophils, macrophages & platelet accumulate in pulmonary artery.

Initiate humoral mediators that damage alveolar-capillary membrane.

Alveolar collapse and cause increase work of breathing

Hypoxemia

PNEUMONIA

Definition:

Acute inflammation of the lung parenchyma

Community Acquired Pneumonia (CAP)	Hospital Acquired Pneumonia (HAP)
<u>Pathogens</u> -Strep. Pneumoniae -Legionella sp. -H. Influenzae -Staph. Aureus -Mycoplasma pneu. -Chlamydia pneu. -Pseudomonas	<u>Pathogens</u> -Staph. Aureus -Strep. Pneumoniae -Pseudomonas -Aceno. Baumannii -Klebsiella sp. -Proteus sp. -Serratia sp.
<u>Risk factors</u> - Alcoholism - COPD - Diabetes - Malignancy - Coronary disease	<u>Risk factors</u> - Elderly - COPD - Chronic illness - Mecha. ventilation - Smoking

Clinical manifestation:

Dyspnea	Uremia
Fever	Thrombocytopenia
Cough	Hypoxemia
Coarse crackles	Tachypnea

Diagnostic test

- Chest X-ray
- Sputum culture
- Bronchoscopy
- Full Blood Count
- Arterial Blood Gases

Nursing management:

- Optimize oxygenation & ventilation
 - Oxygen therapy
 - Positioning
 - Secretion clearance
 - Bronchodilators
- Prevent infection spreading
 - Proper hand washing
 - Administer antibiotic
- Provide comfort & emotional support
 - Adequate rest

Self Study Guide For Critical Care Nursing

KJ Lindholm-Leary



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