

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)
<ul style="list-style-type: none">• CVP• Rt Ventricle Pressure• Pulmonary Artery P.	<ul style="list-style-type: none">• Cardiac output• Cardiac Index• Lt Ventricular Ejection Fraction• Lt Atrial Pressure• Capillary Wedge P.

Tools:

Intra-Arterial Catheters (IAC)	<u>Purpose</u> <ul style="list-style-type: none">• Measure MAP correctly• Draw blood for ABG• Monitor Arterial BP <u>Insertion site</u> <ul style="list-style-type: none">• Radial artery• Femoral artery• Dorsalis pedis• Brachial artery• Axillary artery
Central Venous Access	<u>Purpose</u> <ul style="list-style-type: none">• When peripheral site not accessible• For fluid resuscitation• CVP monitoring• Access for PAC• Monitor blood circulation
<u>Insertion site</u> <ul style="list-style-type: none">• Subclavian vein• Brachial vein• Jugular vein	
Pulmonary Artery Catheter (PAC)	<u>Purpose</u> <ul style="list-style-type: none">• 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
<ul style="list-style-type: none">• Tachypnea• Restlessness• Anxiety• Use accessory muscles	<ul style="list-style-type: none">• Agitation• Dyspnea• Fatigue• Use accessory muscle excessively• Fine crackles

Risk factors:

Direct	Indirect
<ul style="list-style-type: none">• Aspiration• Drowning• Toxic inhalation• Pulmonary contusion• Pneumonia• Oxygen toxicity	<ul style="list-style-type: none">• 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> <ul style="list-style-type: none">-Strep. Pneumoniae-Legionella sp.-H. Influenzae-Staph. Aureus-Mycoplasma pneu.-Chlamydia pneu.-Pseudomonas	<u>Pathogens</u> <ul style="list-style-type: none">-Staph. Aureus-Strep. Pneumoniae-Pseudomonas-Aceno. Baumanni-Klebsiella sp.-Proteus sp.-Serratia sp.
<u>Risk factors</u> <ul style="list-style-type: none">AlcoholismCOPDDiabetesMalignancyCoronary disease	<u>Risk factors</u> <ul style="list-style-type: none">ElderlyCOPDChronic illnessMecha. ventilationSmoking

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

Care Nursing Study Guide

Maurene A. Harvey



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