



اسم المادة و الكورس

اسم المحاضرة ورقمها

Sawa University

جامعة ساوة الاهلية

College of health and medical techniques

كلية التقنيات الصحية والطبية

Department of Anesthesia

قسم تقنيات التخدير

..... Stage

.....المرحلة 3....

...محاضرة رقم 1....

الجانب العملي

Lecture No.

Practical

استاذ المادة : د. نور عماد موسى
.....اختصاص تخدير وعناية مركزة

(INTRODUCTION)

Clinical monitoring in ICU :

IS THE interpretation of clinical data to help recognize any future unfavorable system conditions

BASIC MONITORING :

- Oxygenation
- Ventilation
- Circulation
- Other used monitoring include :
- Temperature
- Uop
- Cvp
- Arterial line : contineuous BP monitoring , ABG

LESS FREQUENTLY USED MONITORING

1. Swan ganz catheter , PCWP, CARDIAC OUT PUT
2. ICP monitoring
3. EEG electro encephalo gram
4. TEE trans esophageal echocardiography

OXYGENATION

1. Clinical : color , resp. rate and pattern , equal air entry , wheeze , crackles
2. Delivered gas : conc. Of O₂ measured by O₂ analyzer
3. Blood oxygenation : pulse oximetry and ABG : PA O₂

VENTILATION

1. Clinical : chest movement and breathing sounds auscultation
2. ABG : Pa CO₂
3. END tidal CO₂
4. Monitoring of expired gas volume

CIRCULATION

1. ECG : CARDIAC MONITORING
2. Bp and HR
3. CLINICAL : PULSE , CARDIAC SOUNDS

CVP

- IS the pressure recorded from rt. Atrium or superior vena cava represent the filling pressure of rt. Side of the heart
- Normal value : 0 – 6 mmhg in spont. Breathing
- : 10 in pt. on mechanical ventilation

AIRWAY MONITORING

- Oxygenation
- Ventilation
- Correct ETT placement
- ETT cuff pressure (between 20 – 30 cm H₂O)
- Airway pressure

RESPIRATORY MONITORING

1. Low AW Pressure (leak or disconnection)
2. High AW pressure (kink , biting of ETT , Bronchospasm or blocked ETT)
3. LOW expired tidal volume (leak)
4. Apnea alarm (disconnection)

CARDIOVASCULAR MONITORING :

1. Arterial BP
2. ECG
3. CVP CATH.
4. PUL. ARTERY CATH.
5. CARDIAC OUTPUT MEASUREMENT

ANY QUESTION

Any questions?

*Thank
You*