



Advance in PICU Monitoring

Rujipat SamransamruajkiT MD

Associate Professor of Pediatrics

Pediatric Pulmonary & Critical Care

King Chulalongkorn Memorial Hospital



MONITORING

Monitor is derived from the word “Monere”
means

“To Warn or Remind”

Monitoring means using oversight to detect threats early enough for effective intervention. Permit timely intervention to avoid potentially harmful consequences.

Ideal Monitoring System

- ❖ Safe, non-invasive, associated with no discomfort, responsive to real time change
- ❖ Data would be reliable, accurate, repeatable, continuously displayed, able to be stored and retrieved
- ❖ Least invasive monitoring that is appropriate for diagnosis, patient safety, assessment of treatment

Advance in PICU Monitoring



Intracranial

Intra-Thoracic

Hemodynamic

Intra-Abdomen

**Abdominal
Compartment
Syndrome**



Hemodynamic Monitoring

- ❖ Understanding Principles/Practice essential for management of critically ill child
- ❖ Knowledge pathophysiology and physical Principles of technology
Limitations
Potential errors