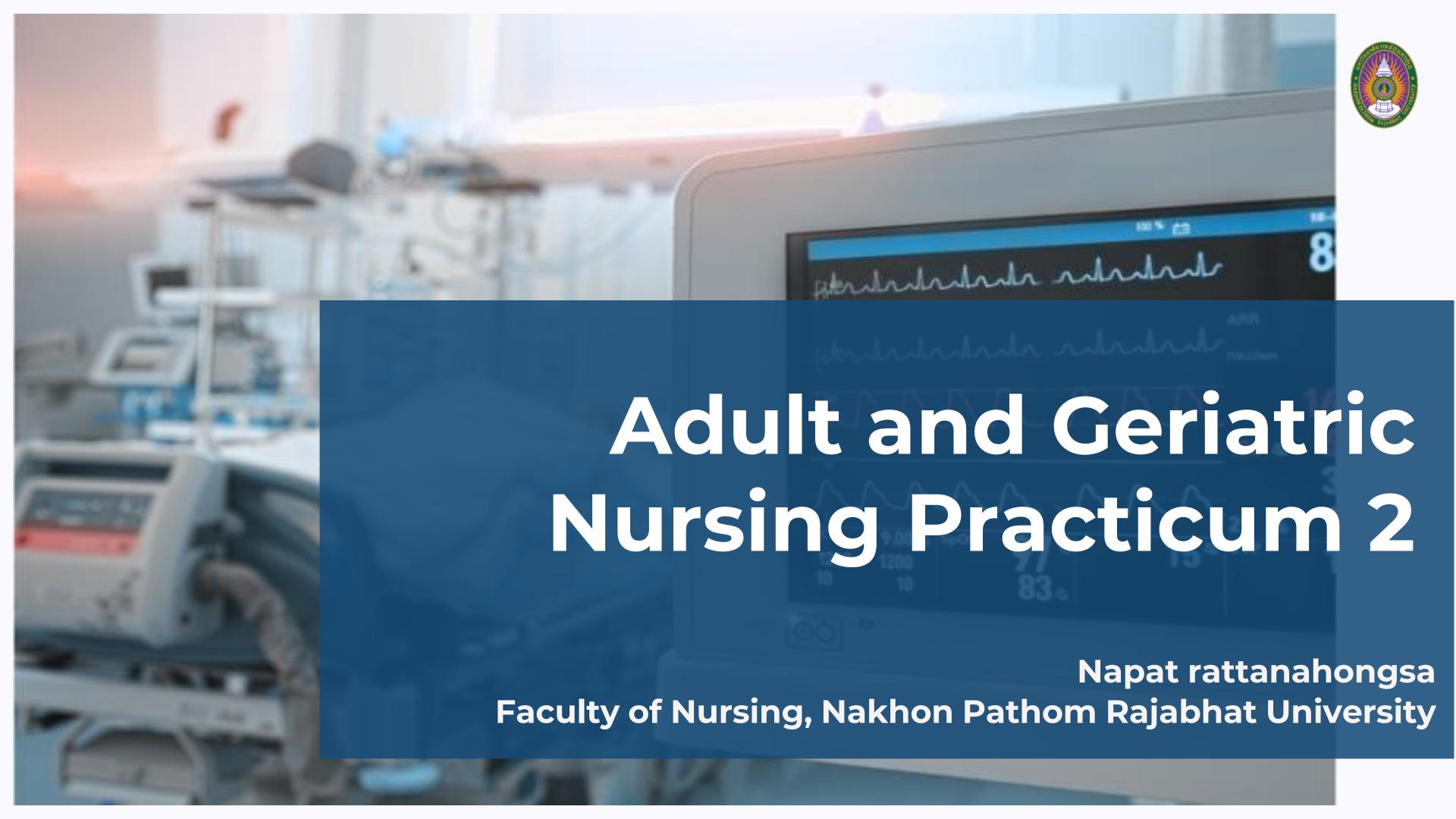
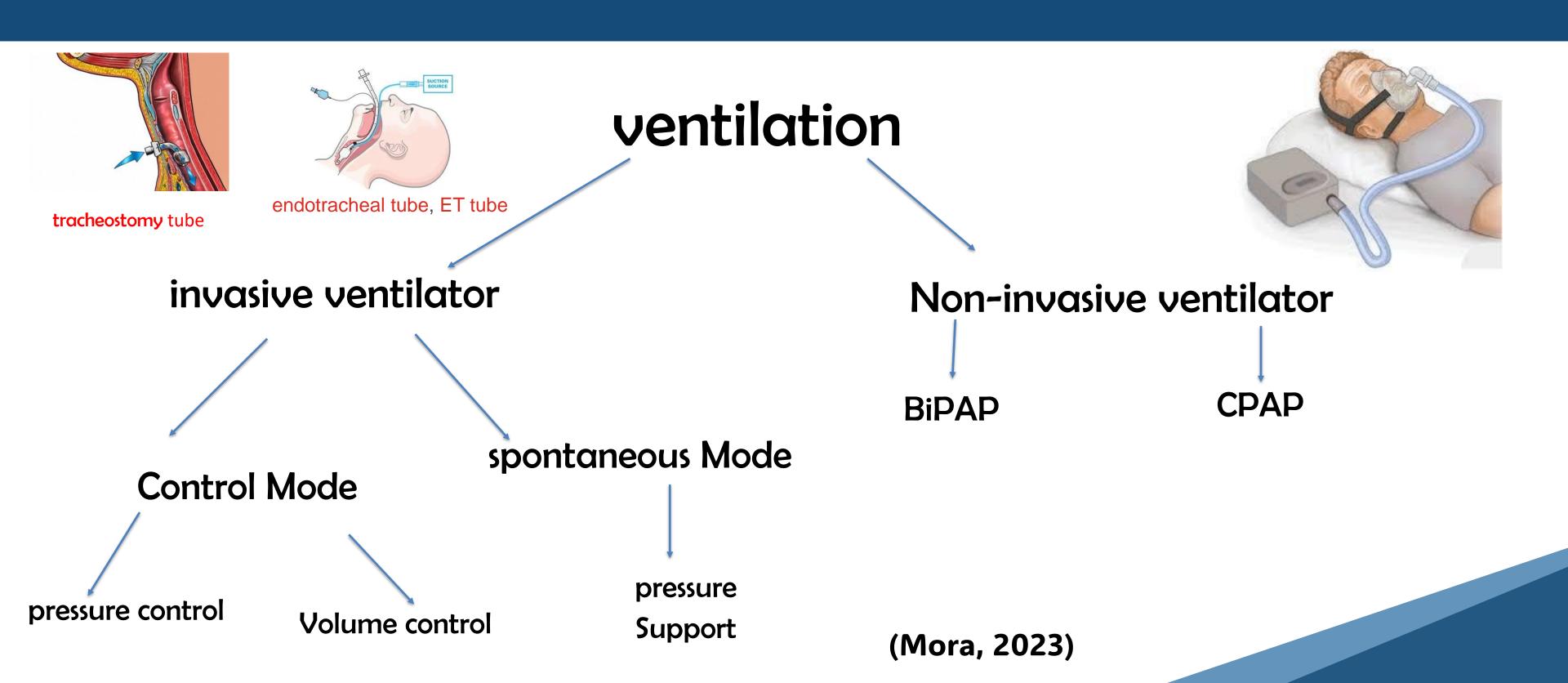


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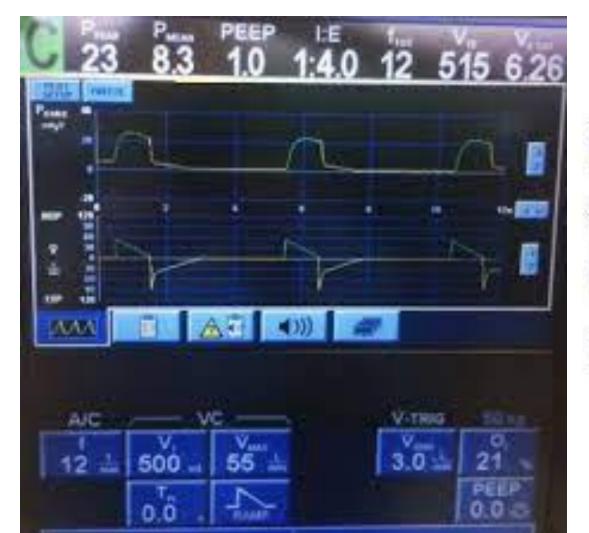


## **Control Mode**

Assist-control ventilation (A/C)



pressure control ventilation



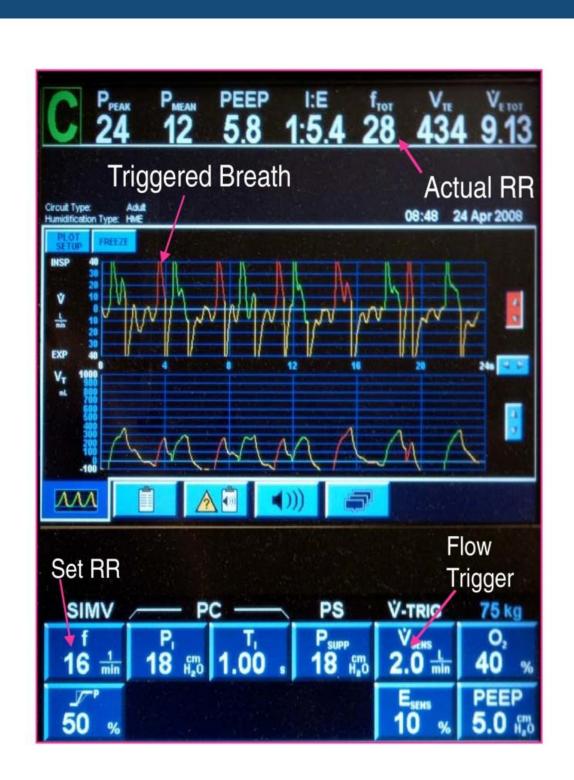
	Tidal volume	RR	I/E ratio	PEEP	FIO <sub>2</sub>
Normal lungs	8 mL/kg	10-12	1:2	4	1.0
Asthma/COPD	6 mL/kg	5-8	1:4	4	1.0
ARDS	6 mL/kg	10-12	1:2	4-15	1.0
Hypovolemia	8 mL/kg	10-12	1:2	0-4	1.0

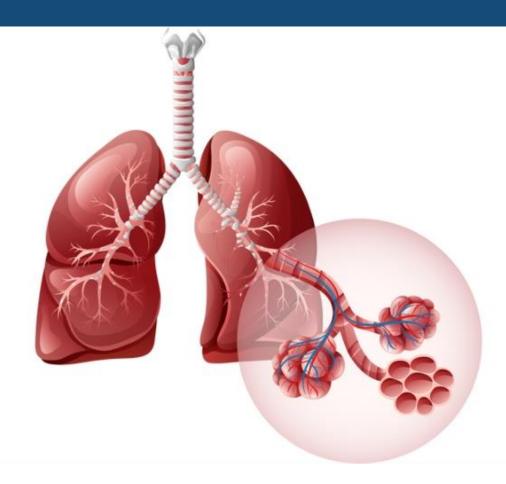
Volume control ventilation



spontaneous Mode







Synchronized intermittent mandatory ventilation (SIMV)

pressure Support

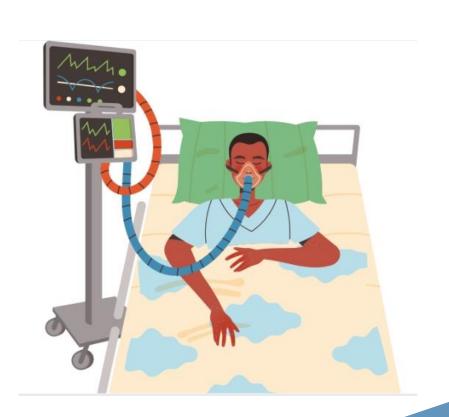


# Ventilator Alarms Setting

Alarm	Setting		
High minute ventilation	10-15% > set or target minute volume		
Low minute ventilation	10-15% < set or target minute volume		
High Vt	10-15% > set or target Vt		
Low Vt	10-15% < set or target Vt		
High-system pressure	10 cmH20 > average peak airway pressure		
Low-system pressure	5-10 cmH20 < average peak airway pressure		

## alarm apnea

In Mode spontaneous Mode







## Impact on Mechanically Ventilated Patients

Posing a significant burden to patients and caregivers

#### **Short-term**

Increase in complications

- VAP
- Sepsis
- Acute respiratory distress syndrome (ARDS)
- Pulmonary embolism
- Barotrauma
- Pulmonary edema Increase in health care costs Increase in length of stay

### Long-term

- Slower overall recovery time
- Debilitating physical disabilities
- Lingering cognitive dysfunction
- Psychiatric issues, including anxiety, depression, and post-traumatic stress disorder



(Martin, 2024)



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