



มหาวิทยาลัยราชภัฏนครปฐม



Adult and Geriatric Nursing Practicum 2

Napat rattanahongsa
Faculty of Nursing, Nakhon Pathom Rajabhat University

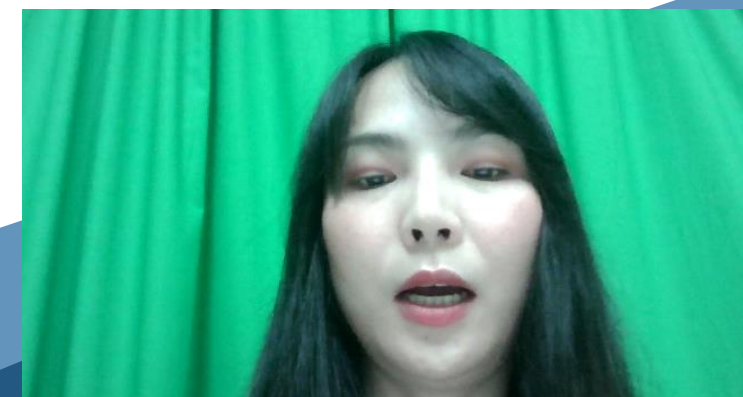




Course description



Practice nursing care for adults and the elderly in ill conditions using nursing processes in emergency, critical, acute and chronic care, internal medicine and surgery in the endocrine system, respiratory system, cardiovascular system, immune system, nervous system, infectious diseases, communicable and emerging diseases, using digital technology and related innovations in care, rational use of medicines, nutritional therapy, intercultural nursing, issues and trends in patient rights, human rights, law, ethics and related codes of conduct.



Learning objectives



1

Explain the principles of nursing practice for patients.

2

Explain the impact of critical illness.

3

Describe common diseases or conditions that lead to critical conditions.

4

Assessmet critically ill adult patients

5

Provide nursing care to critically ill adult patients.

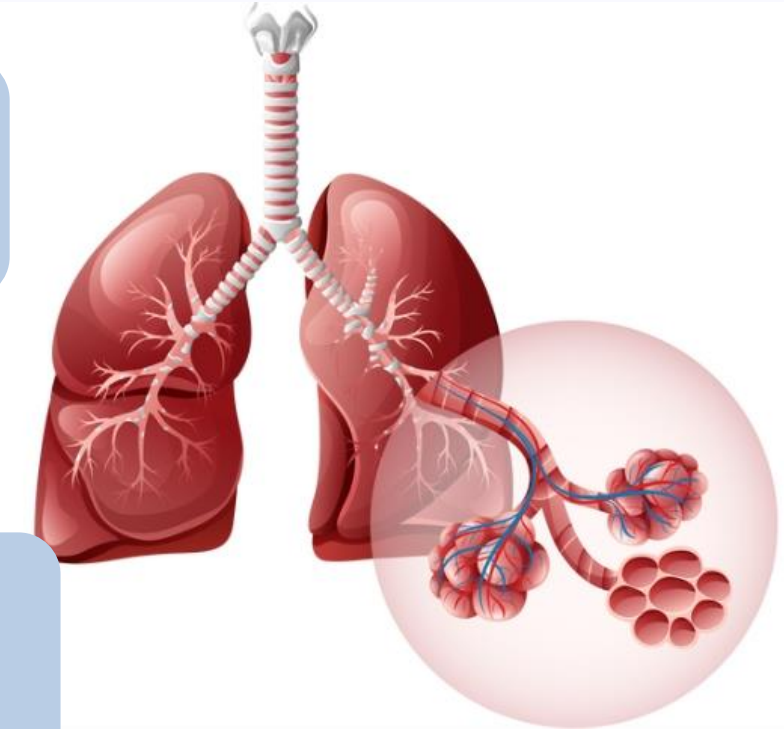


Who is a critical patient?



A

Airway

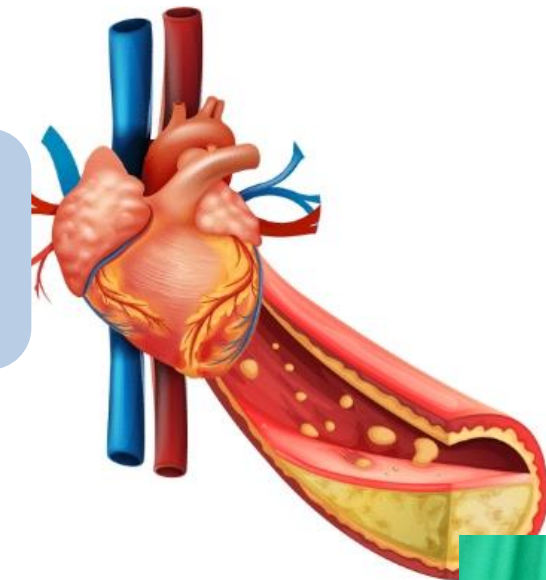


B

Breathing

C

Circulation



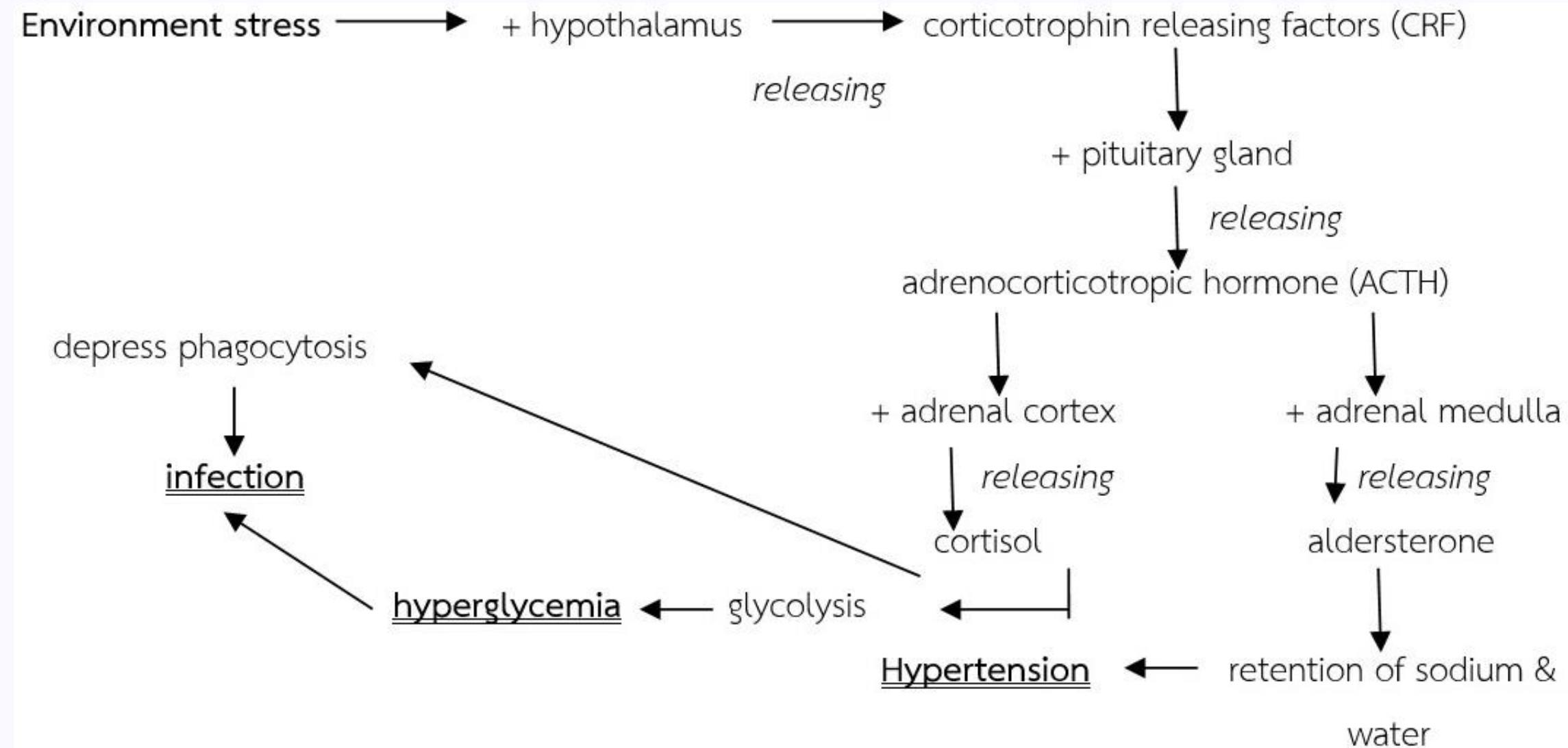
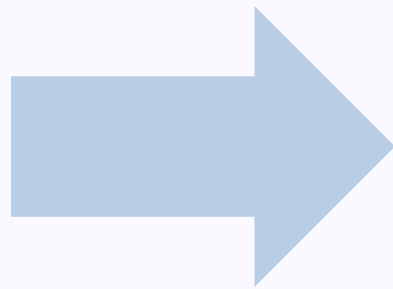
- A Critically ill patient is someone suffering from a life-threatening condition
- significantly impairs their bodily functions
- they require intensive medical care to survive

(Bruinink et al., 2024; Jackson et al., 2020)



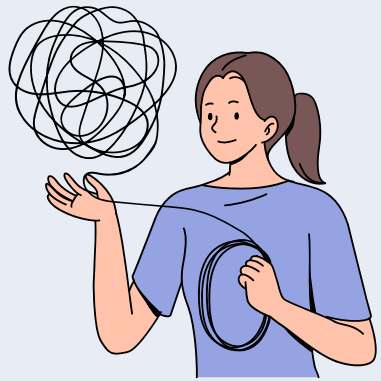
Impact on critically ill patients

physiological stresses of critical





Impact on critically ill patients



physiological

- Functional dysfunction
- cognitive impairment
- Morbidity
- Mortality
- Comorbidity
- Malnutrition



Psychological

- Stress
- Anxiety
- ICU delirium



psychosocial

- Family
- income

Bulic et al., 2020; วิจิตรา กุสุมภ์ และสุนันทา ครองยุทธ, 2563

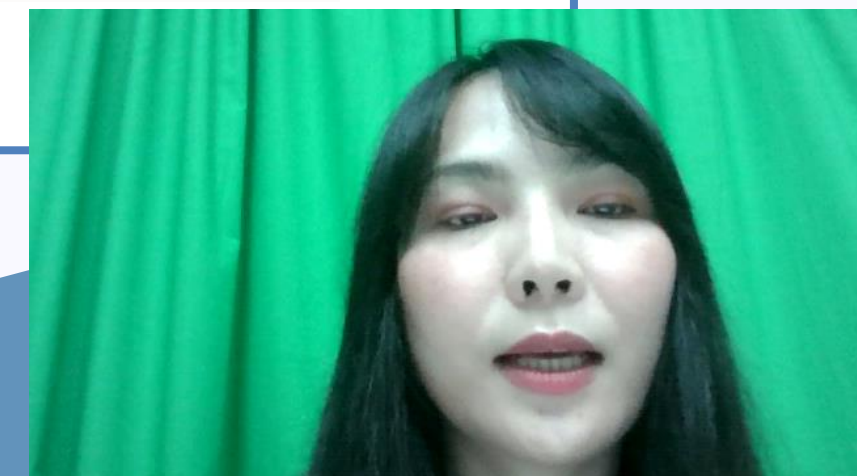


ICU medical conditions



- Septic shock
- Cardiogenic shock
- Acute respiratory failure
- Stroke
- Severe asthma
- Acute respiratory distress syndrome (ARDS)
- Influenza with complication
- Acute liver failure
- Acute kidney injury
- Pneumonia

- Shock
- Sepsis
- Pulmonary embolism
- Intracranial hemorrhage
- Biliary tract infections
- Severe diabetic ulcers
- Cerebral edema
- Heart failure
- Multiple organ failure



Overview of some critical care organ support and monitoring options



Respiratory

1. High flow oxygen/high flow nasal cannula therapy
CPAP (nasal, hood, mask)
2. Non-invasive ventilation
3. Invasive ventilation (various techniques including recruitment manoeuvres)
4. Percutaneous tracheostomy
5. Bronchoscopy, broncho-alveolar lavage
6. Prone ventilation

Jackson et al., 2020

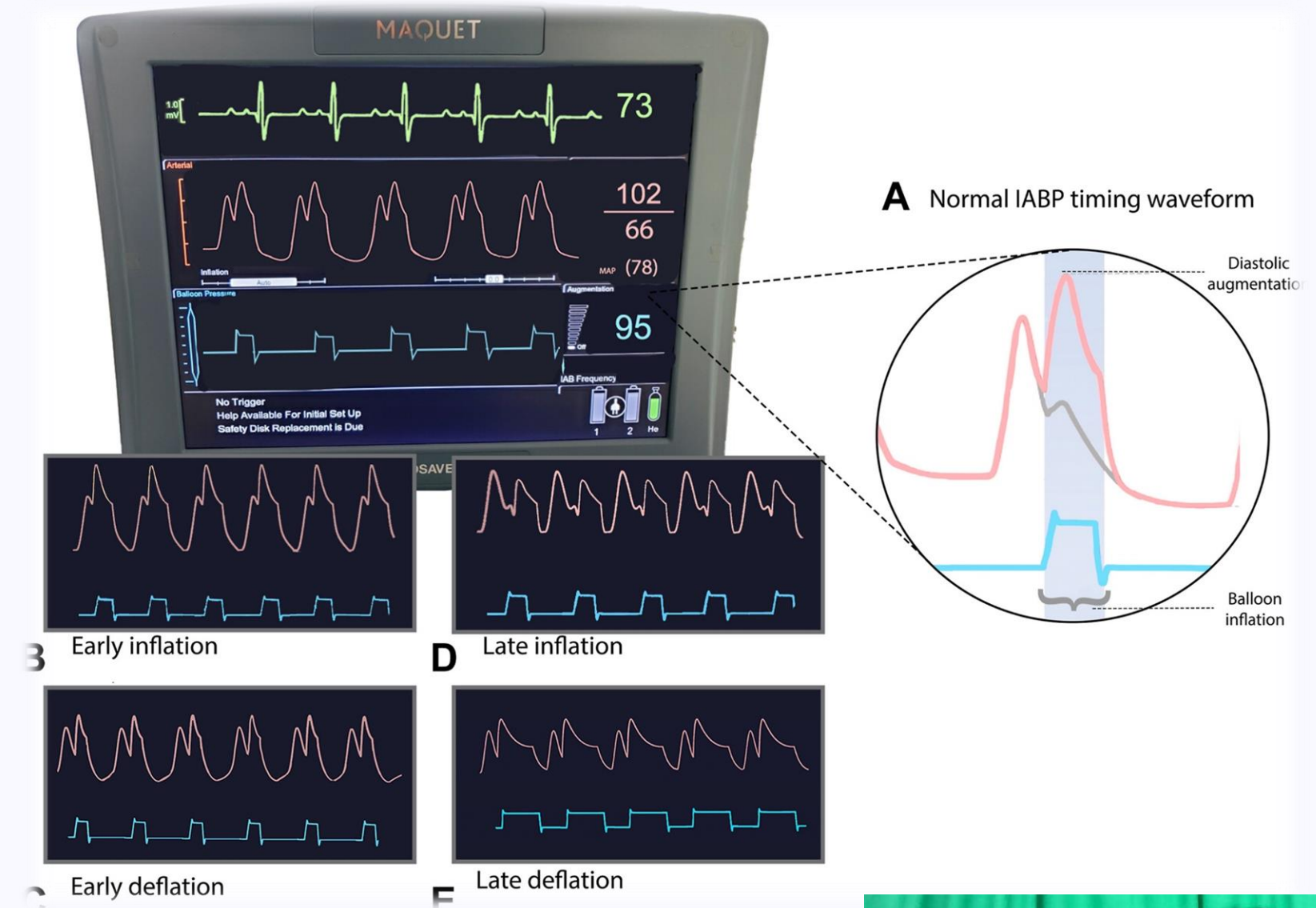


Overview of some critical care organ support and monitoring options



Cardiovascular

1. IV fluids management
2. Vasopressors and inotropes
3. Arterial and central venous catheters
4. Cardiac output monitoring: Pulse contour analysis (LiDCO, PiCCO and others), oesophageal doppler, pulmonary artery flotation catheter
5. Cardiac pacing
6. Echocardiography (trans-thoracic and trans-oesophageal)
7. Intra-aortic balloon counterpulsation pump
8. ECMO



Jackson et al., 2020



Overview of some critical care organ support and monitoring options



Renal

Renal replacement therapy including

1. continuous veno-venous haemo (dia-) filtration (CRRT)
2. intermittent hemodialysis

Jackson et al., 2020



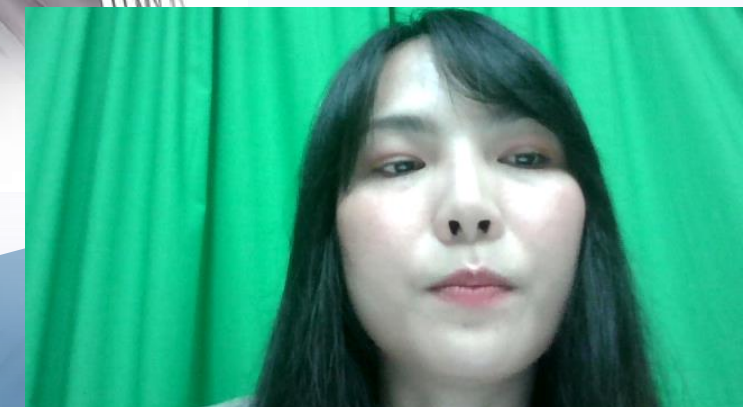
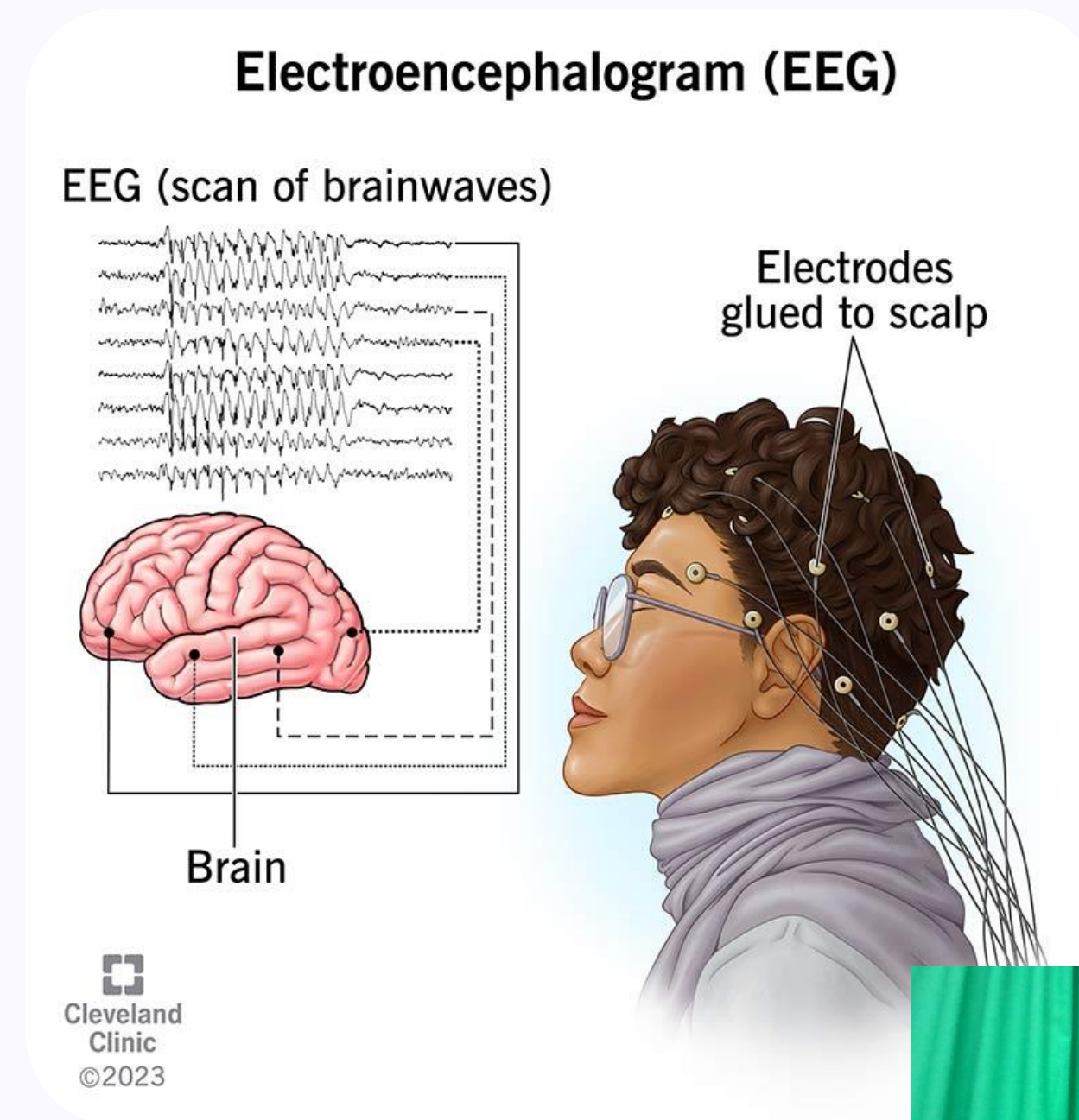
Overview of some critical care organ support and monitoring options



CNS

1. Neurological observations
Raw EEG (or EEG- derived)
2. monitoring
Intracranial pressure monitoring
3. Therapeutic cooling/temperature control

Jackson et al., 2020





มหาวิทยาลัยราชภัฏนครปฐม