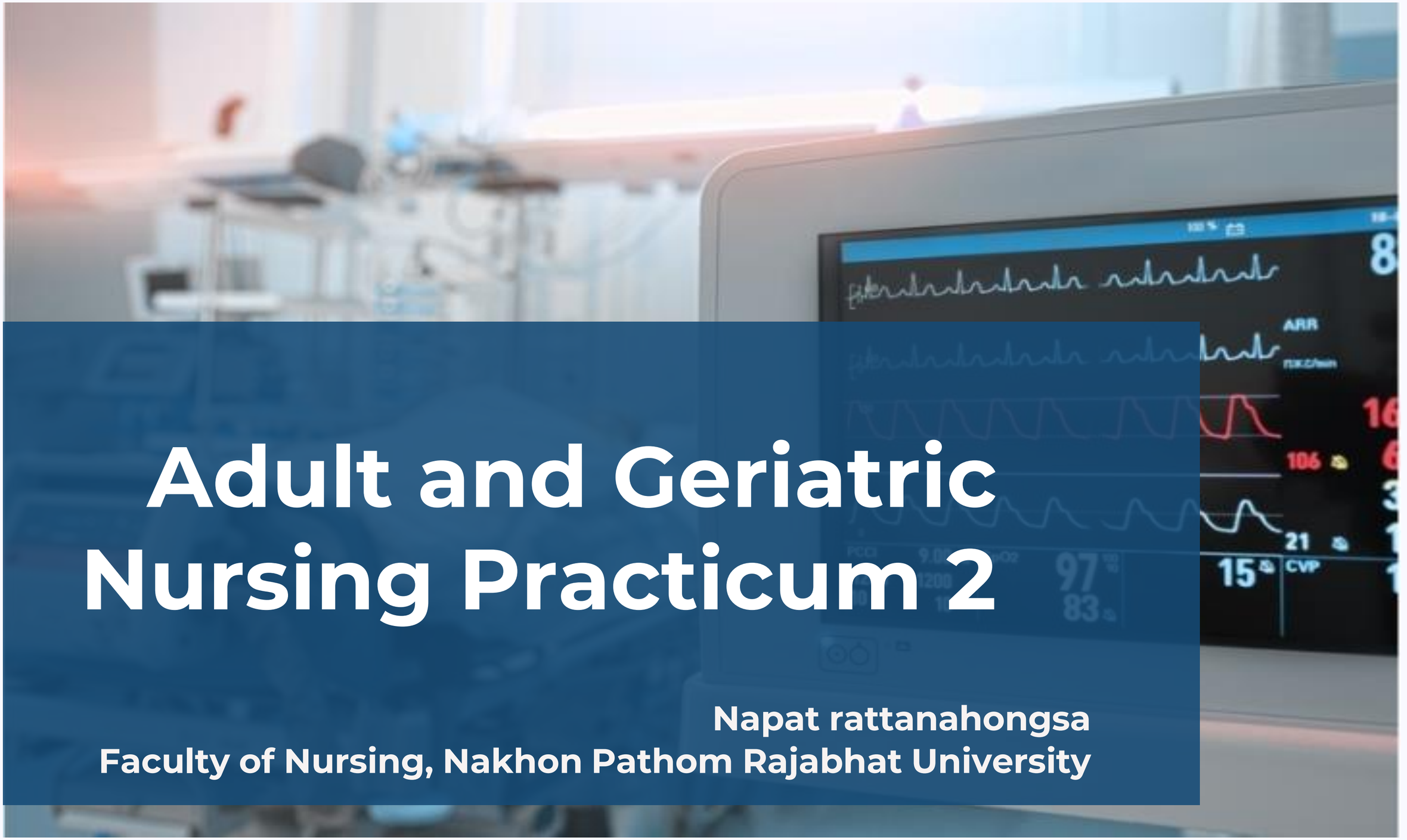
มหาวิทยาลัยราชภัฏนครปฐม



Adult and Geriatric Nursing Practicum 2

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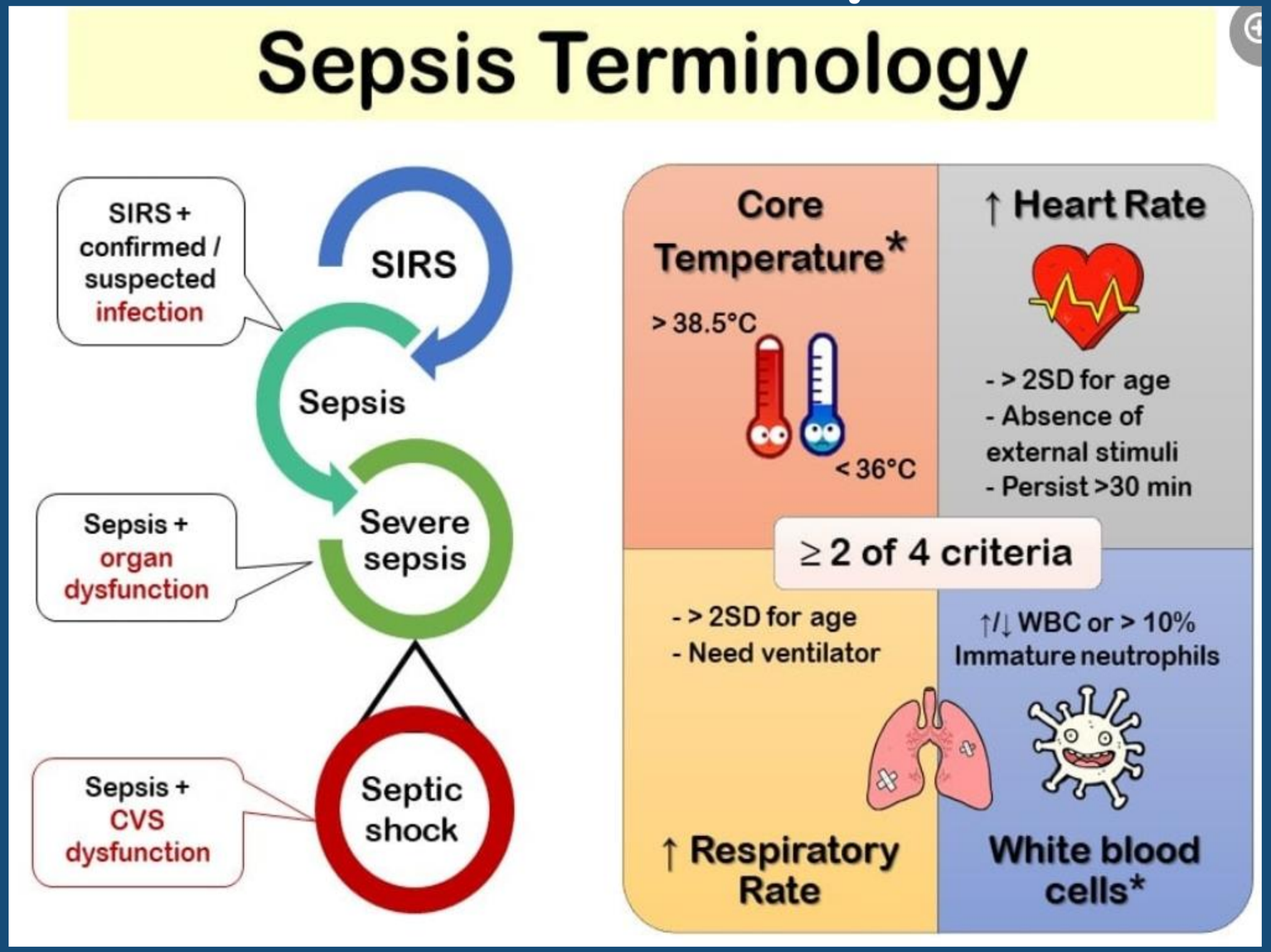
Sepsis



- ❑ **SIRS (at least 2 of 4)**
  - ❑ BT > 38.3 or BT < 36
  - ❑ PR > 90/min
  - ❑ RR > 20/min or PaCO2 < 32 mmHg
  - ❑ WBC > 12,000 or < 4,000 or band>10%

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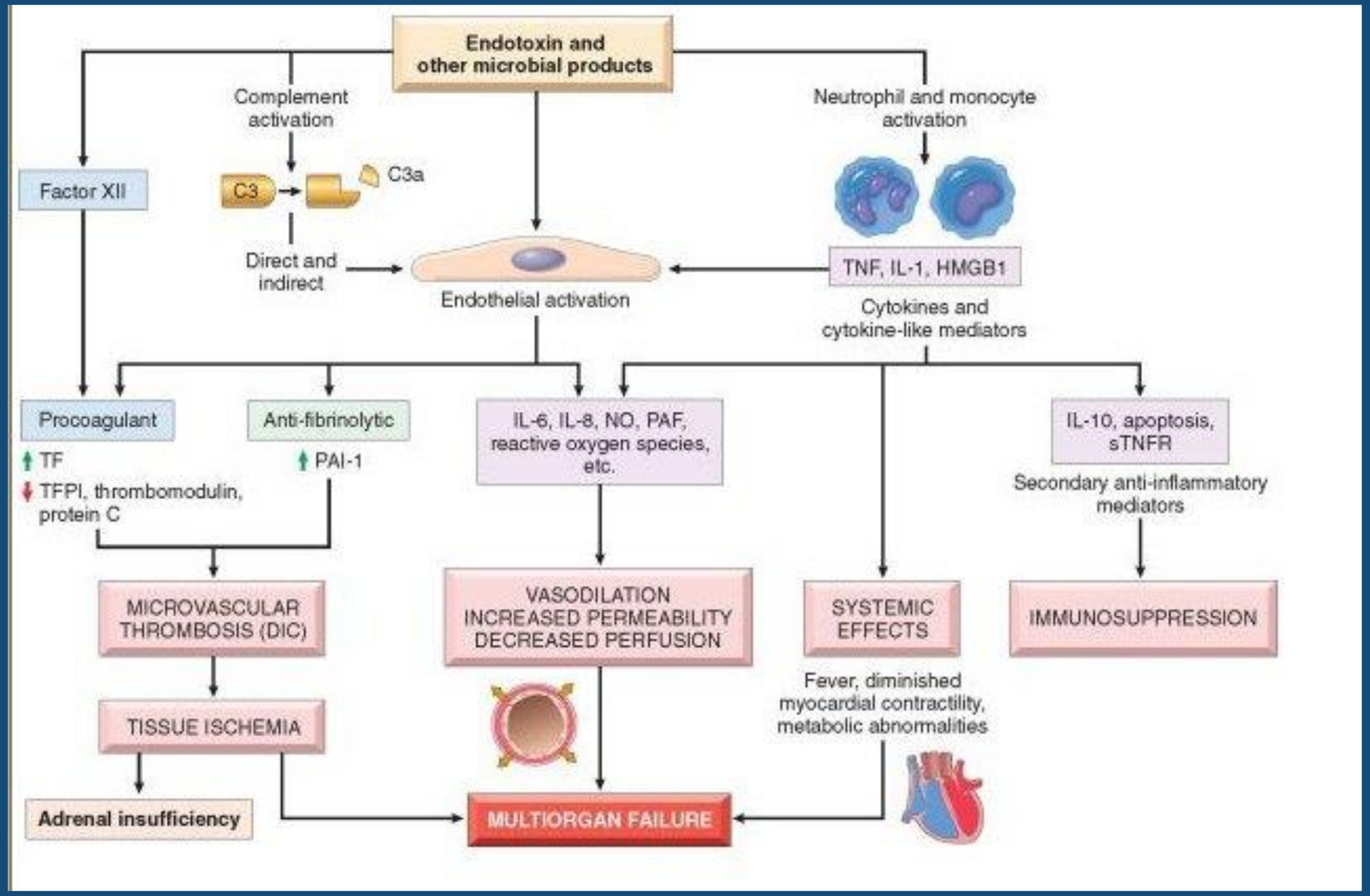
pathology



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Sepsis

Definition of Sepsis/Septic Shock

Sepsis: new terminology

- **SIRS** — Defined by 2 or more criteria
- **Sepsis** — SIRS + Infection
- **Severe Sepsis** — Sepsis + at least one sign of organ dysfunction
- **Septic shock** — Severe sepsis with refractory hypotension

SOFA Variables *
- PaO_2/FiO_2 ratio
- Glasgow Coma Scale score
- Mean arterial pressure
- Administration of vasopressors with type and dose rate of infusion
- Serum creatinine or urine output
- Bilirubin
- Platelet count

Definition of sepsis
- Life-threatening **organ dysfunction** caused by a dysregulated host response to infection

Organ dysfunction
- Assessed using the **SOFA score***

Sepsis clinical criteria
- Infection + change of 2 or more parameters in the **SOFA score***

Septic shock
- Sepsis with persistent hypotension requiring vasopressors to maintain MAP ≥65mmHg and a serum lactate ≥2mM

JAMA. 2016;315(8):801-810. doi:10.1001/jama.2016.0287

Sequential [Sepsis-Related] Organ Failure Assessment (SOFA) Score

System	0	1	2	3	4
Respiration PaO2/FiO2, mmHg (kPa)	≥400 (53.3)	<400 (53.3)	<300 (40)	<200 (26.7) with respiratory support	<100 (13.3) with respiratory support
Coagulation Platelets, x10^3/uL	≥150	<150	<100	<50	<20
Liver Bilirubin, mg/dL (umol/L)	<1.2 (20)	1.2 - 1.9 (20 - 32)	2.0 - 5.9 (33 - 101)	6.0 - 11.9 (102 - 204)	>12.0 (204)
Cardiovascular	MAP ≥70mmHg	MAP <70mmHg	Dopamine <5 or Dobutamine (any dose)	Dopamine 5.1 - 15 or Epinephrine ≤0.1 or Norepinephrine ≤0.1	Dopamine >15 or Epinephrine >0.1 or Norepinephrine >0.1
CNS GCS Score	15	13 - 14	10 -12	6 - 9	<6
Renal Creatinine, mg/dL (umol/L) Urine Output, mL/d	<1.2 (110)	1.2 - 1.9 (110 - 170)	2.0 - 3.4 (171 - 299)	3.5 - 4.9 (300 - 440) <500	>5.0 (440) <200
*Catecholamine Doses = ug/kg/min for at least 1hr					

SOFA score

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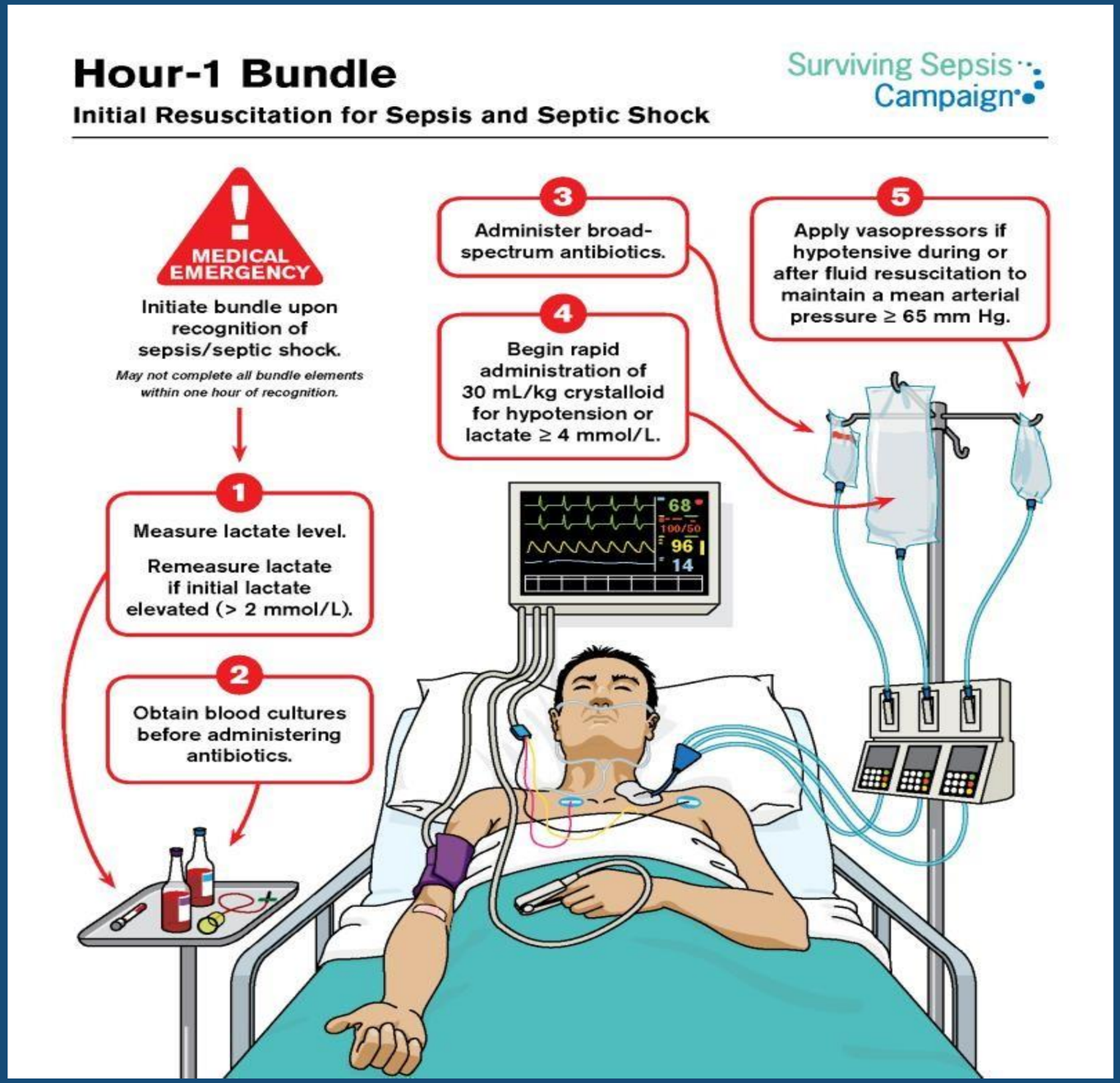
Nursing Care



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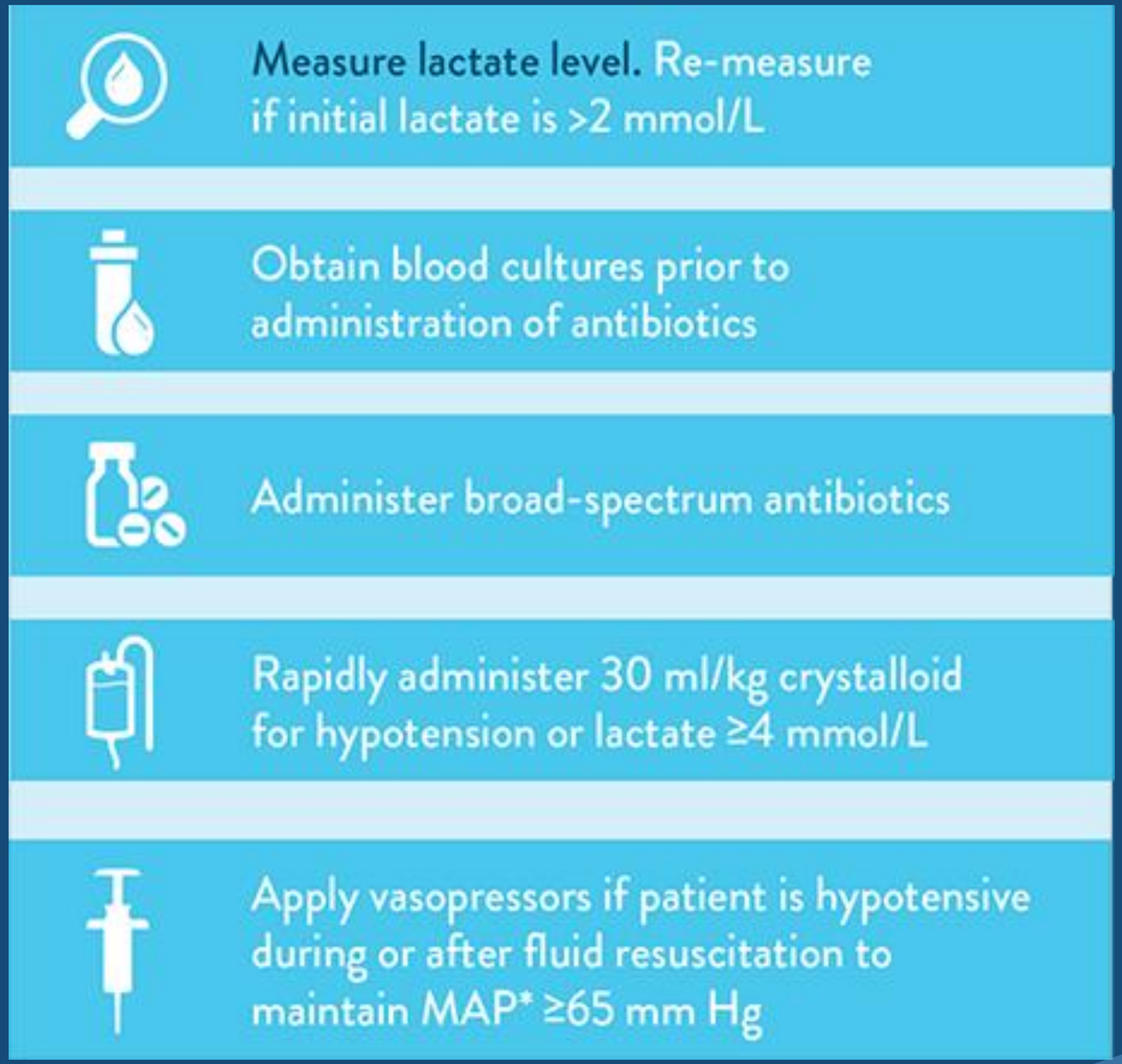
septic work up
CBC, BUN, Cr.
Electrolyte, PT PTT
INR, LFT
Hemoculture x II

- Sputum C/S, gram stain
- Urine C/S
- Pus C/S

Nursing Care



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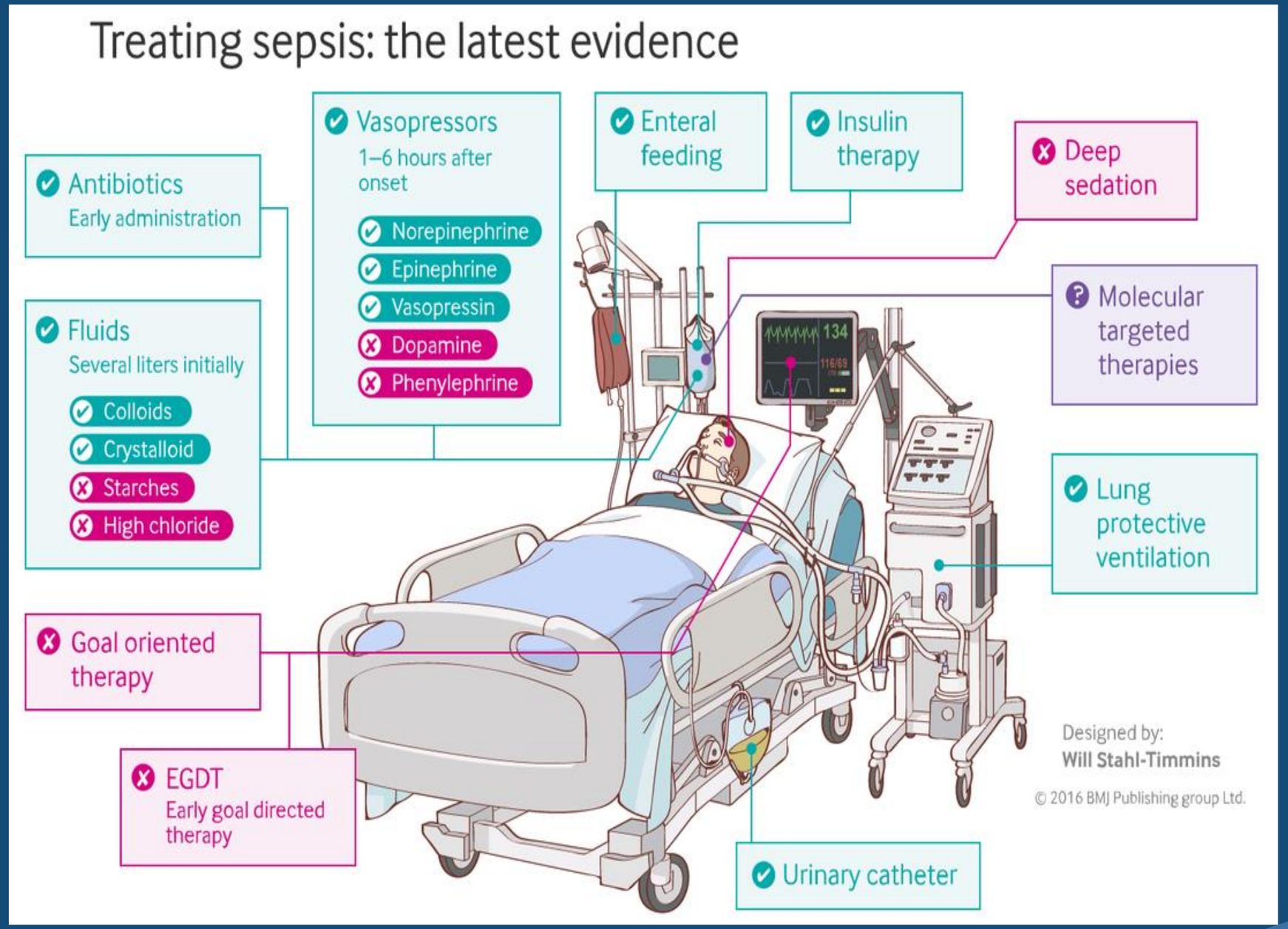
Nursing Care



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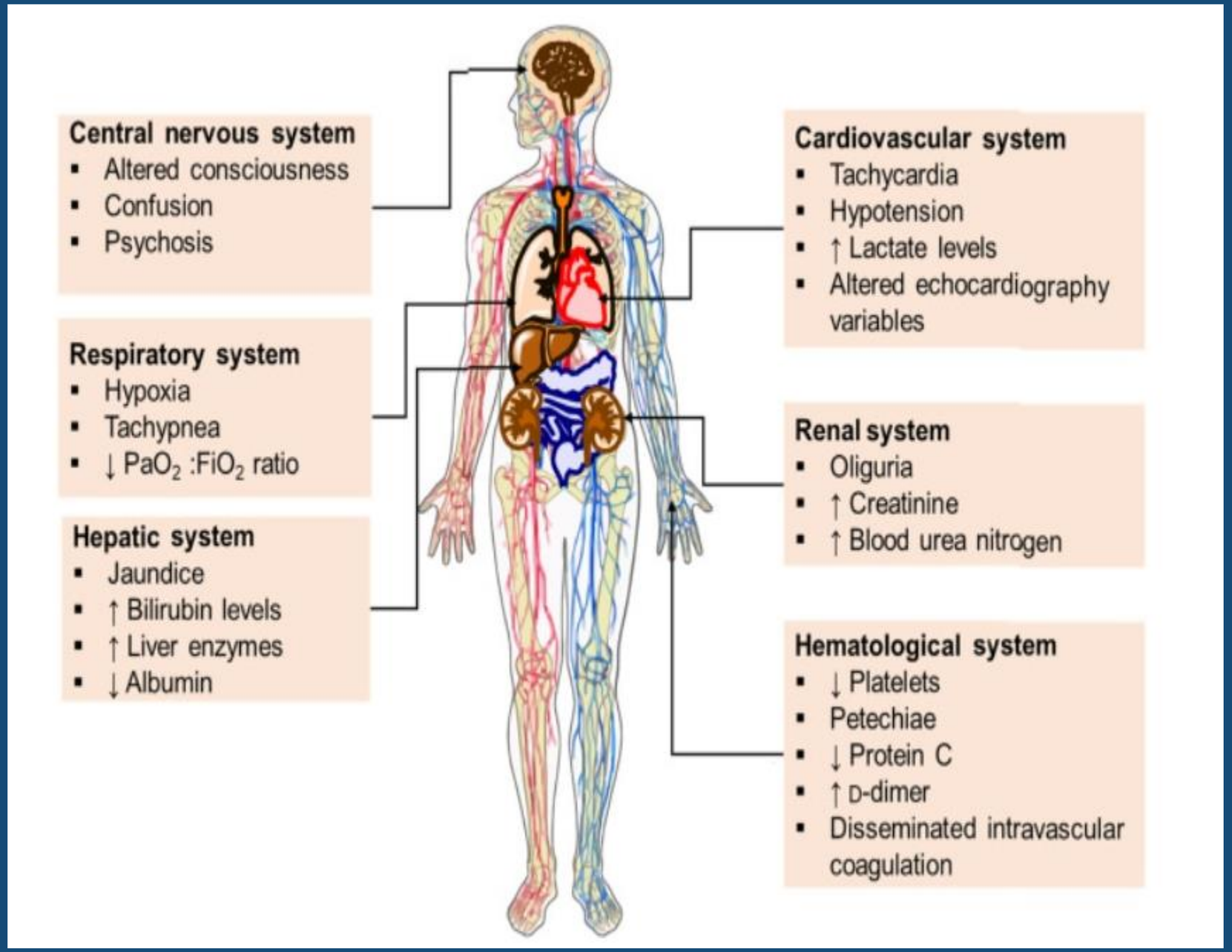
Multiple organ dysfunction syndrome



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Vasopressor drug

high alert drug

Norepinephrine (4:250), (4:100), (8:100) IV drop keep Map > 65 mmHg.
Titrate

dilusion in D5W

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Close monitoring
Record V/S q 15 min

If sign and symptoms notify

- **BP >180/110 < 90/60 mmHg.**
- **HR > 120 bpm.**
- **Cardiac arrhythmia**
- **extravasation**
- **Phebritis**
- **Cyanosis, limb ischemia**

Headache, dyspnea, nausea vomiting, Palpitations, Chest pain

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