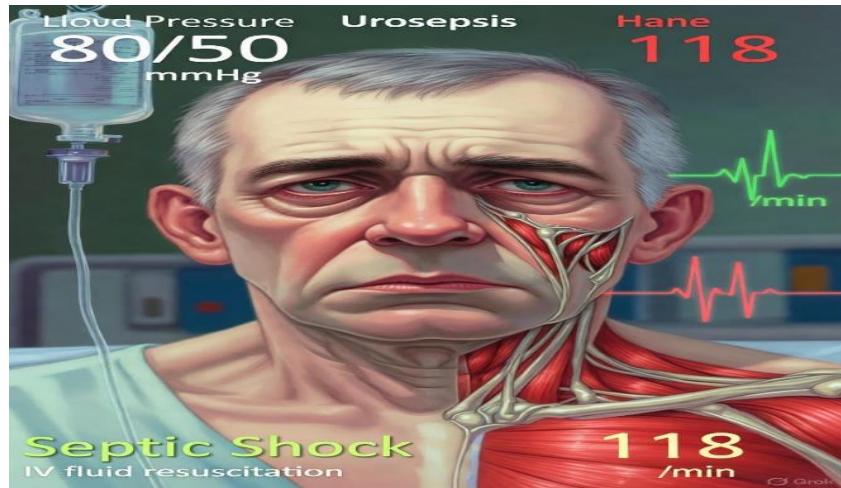


UNIT-2 CASE STUDY BASED PUZZLE

TOPIC-1 DRUGS USED IN THE THERAPY OF SHOCK

CASE STUDY -1



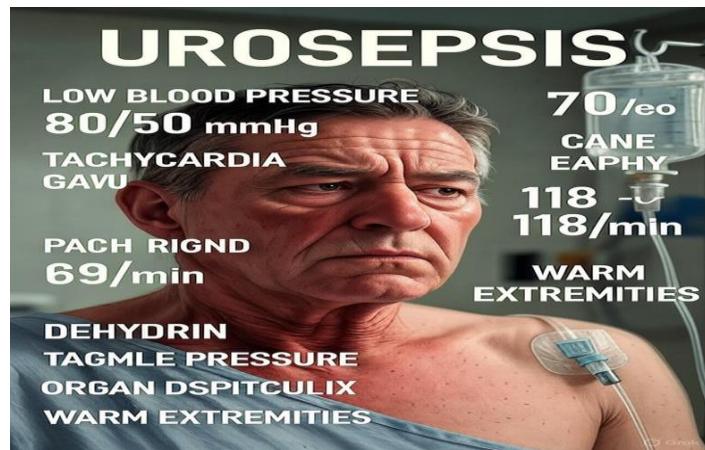
Puzzle Questions:

1. What type of shock is this?
2. Which drug is the **drug of choice** to increase MAP?
3. What is the **main receptor action** of this drug?

✓ Answer:

1. Septic (distributive) shock
2. **Norepinephrine**
3. Strong α_1 agonist with β_1 support (vasoconstriction + cardiac output support)

CASE STUDY- 2



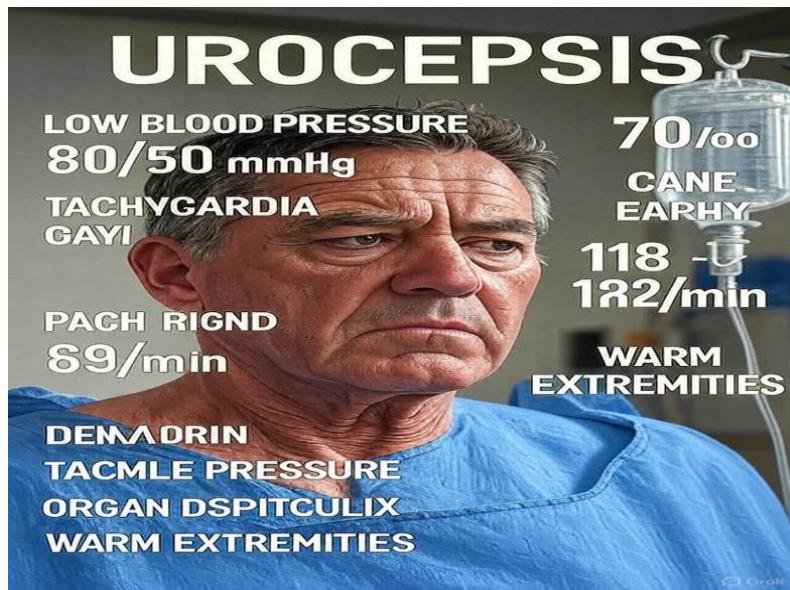
Puzzle Questions:

1. Identify the type of shock.
2. Which drug improves **myocardial contractility** with minimal increase in heart rate?
3. Which receptor is mainly stimulated?

Answer:

1. Cardiogenic shock
2. **Dobutamine**
3. $\beta\text{-adrenergic receptor}$

Case Study 3



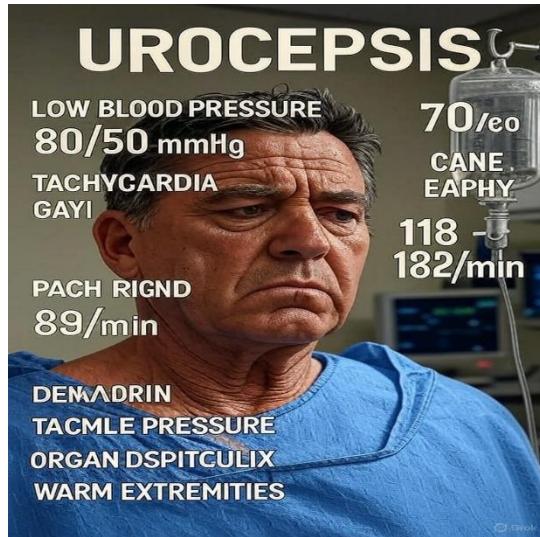
Puzzle Questions:

1. What type of shock is seen?
2. Which drug should be administered immediately?
3. Mention two pharmacological actions of this drug useful in this condition.

Answer:

1. Anaphylactic shock
2. **Epinephrine (Adrenaline)**
3.
 - o β_2 \rightarrow Bronchodilation
 - o α_1 \rightarrow Vasoconstriction (raises BP)

Case Study 4 –



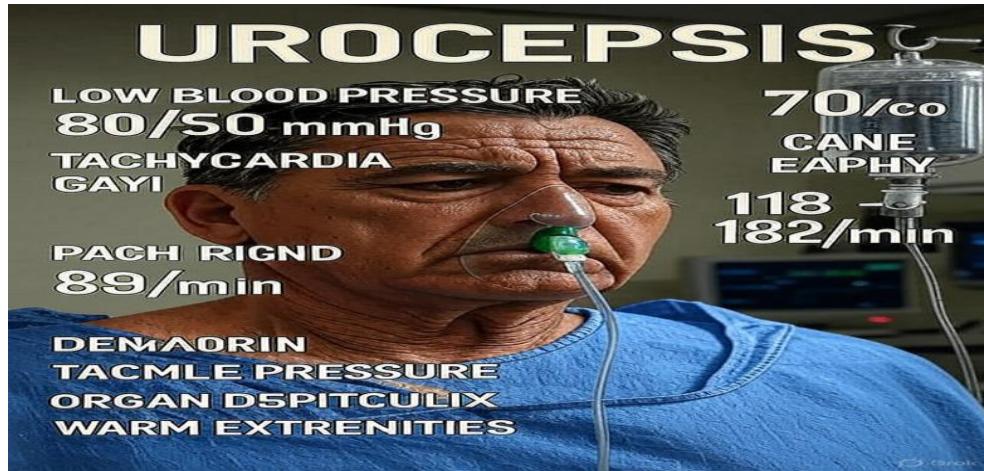
Puzzle Questions:

1. Identify the type of shock.
2. Which vasopressor is preferred to restore vascular tone?
3. Why is this drug useful in this patient?

Answer:

1. Neurogenic shock
2. **Phenylephrine**
3. It causes **pure α_1 -mediated vasoconstriction**, correcting hypotension without increasing heart rate.

Case Study 5 –



Puzzle Questions:

1. Which additional drug can be added as an **adjunct vasopressor**?
2. Is this drug adrenergic or non-adrenergic?
3. State one major adverse effect.

Answer:

1. **Vasopressin**
2. **Non-adrenergic** (V1 receptor mediated)
3. Digital or splanchnic ischemia