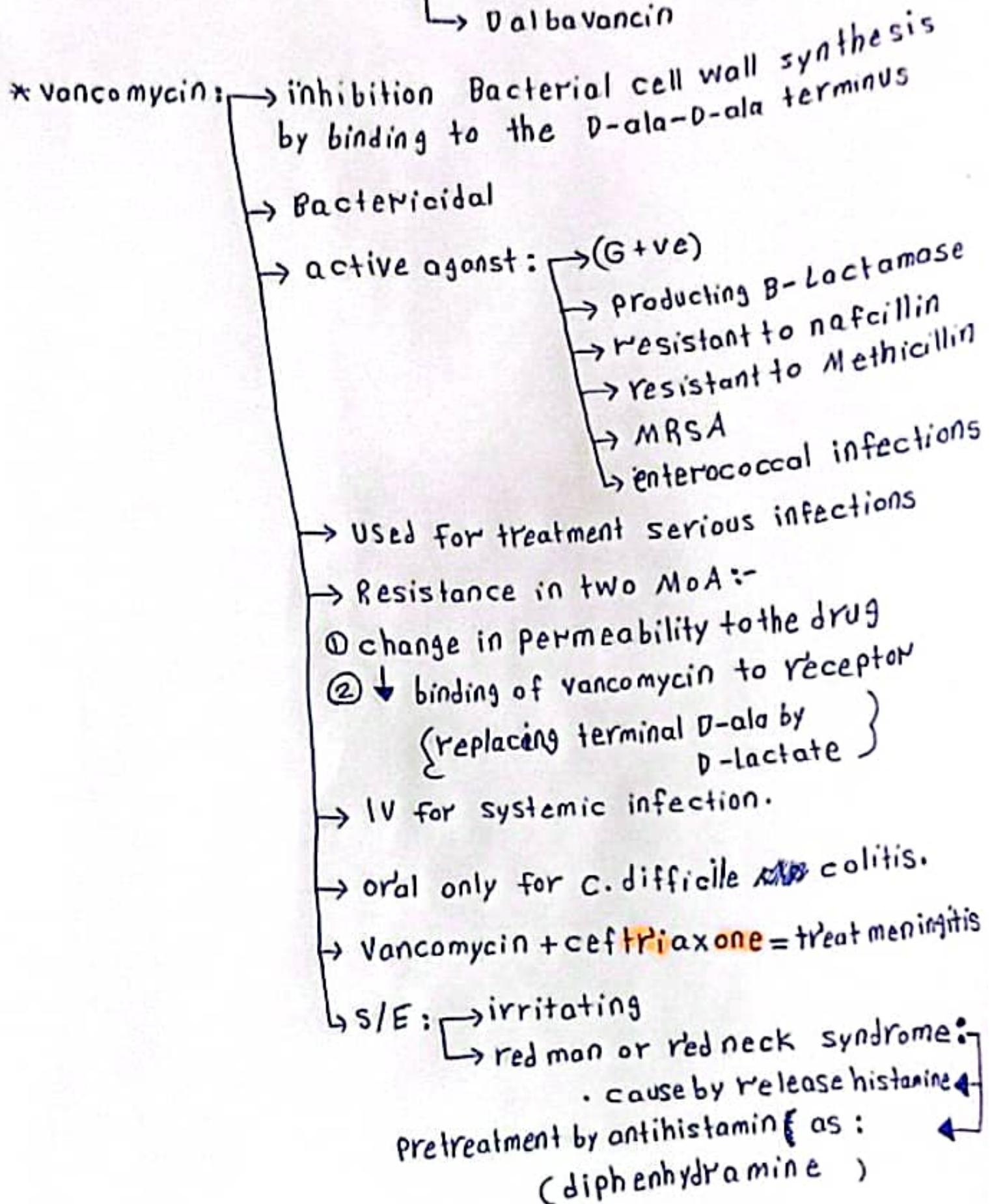


* Glycopeptide ABs :

- Vancomycin
- Teicoplanin
- Telavancin
- Dalbavancin



* Daptomycin :
→ work on cell membrane.
→ not work on cell wall.

* Daptomycin (cyclic lipopeptide) + Ca^{2+} = depolarization = $\downarrow \text{K}^+$ = cell death

* Daptomycin active → similar to the vancomycin
→ enterococci
→ S-aureus

* Daptomycin | alternative → linezolid
for treat :-
→ quinupristin = ① MRSA
→ dalfopristin ② VRE

* Daptomycin + surfactants = inactivation = so, not use for pneumonia

* Fosfomycin :
→ Work on cell wall
→ Analog of phosphoenolpyruvate (PEP)
→ ↓ enzyme
enolpyruvate ↓ Formation
 N -acetylmuramic acid
→ active against → (G-ve)
→ (G+ve)
→ Excreted by → Kidney
→ used as single dose
→ for treat uncomplicated Lower urinary tract infections in women.

- * Bacitracin:
 - work on cell wall
 - is mixture of cyclic polypeptides
 - active → (G+ve)
 - inhibit cell wall: by interfering with dephosphorylation of the lipid.
 - **topically:**
 - eye infection
 - skin infection
 - use to infants with:
 - staphylococcal pneumonia
 - empyema
 - [US Boxed Warning]: IM use may cause renal failure.

- * cycloserine:
 - (G-ve) + (G+ve)
 - L-alanine D-alanine
 - alanine racemase
 - inhibition to alanine racemase by cycloserine ملاد بـ بتالي يمنع تكون الـ (D-alanine)
 - for treat → tuberculosis.
 - S/E at high dose:
 - CNS toxicity
 - headaches
 - tremors
 - acute psychosis
 - convulsions
 - orally

