

























Question 1

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- A. The terminus of the peptidoglycan cell wall changes
- B. Production of enzymes inactivate vancomycin
- C. Decreased outer membrane permeability

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Question 2

What prevention strategy involves early and effective therapy

intervention?

- A. Chlorhexidine bathing
- B. Hand Hygiene
- c. Antimicrobial Stewardship



Question 2

What prevention strategy involves early and effective therapy

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- A. Chlorhexidine bathing
- B. Environmental cleaning
- c. Antimicrobial Stewardship



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Levitus M, Perera TB. Nih.gov. https://www.ncbi.nlm.nih.gov/books/NBK513233/; Eichel VM, et al. / Hosp Infect. 2023;141:119-128.

Oxazolidinones

	Linezolid (Zyvox)	Tedizolid (Sivextro)	
Mechanism of Action (MOA)		Inhibits bacterial protein synthesis	
	600mg IV or PO every 12 hours	200mg IV or PO every 24 hours	
Dosing / Adjustments	Hemodialysis (HD): Dose post HD	No renal or hepatic adjustments	
Adverse Drug Events (ADEs) / Comments	Serotonin syndrome, lactic acidosis, optic neuritis, myelosuppression	Thrombocytopenia, neutropenia	
Storage	Store at 25°C (77°F) Excursions: 15-30°C (59-86°F)	Store at 20-25°C (68-77°F) Excursions: 15-30°C (59-86°F)	
	Reconstituted: room temperature for up to 21 days	Reconstituted: room temperature for up to 24 hours	

Zyvox (linezolid) [package insert]; Sivextro (tedizolid phosphate) [package insert]

Streptogramin, Glycylcyline

	Quinupristin/Dalfopristin (Synercid)	Tigecycline (Tygacil)
MOA	Inhibit protein synthesis	Inhibits protein translation
Dosing / Adjustments	7.5 mg/kg IV every 8 to 12 hours No renal or hepatic adjustments	100mg IV loading dose followed by 50mg IV every 12 hours Hepatic adjustments required
ADEs / Comments	Injection site reactions, asymptomatic hyperbilirubinemia, arthralgia/myalgia	Acute pancreatitis Avoid in pregnancy and pediatrics
Storage	Store at 2-8°C (36-46°F) Reconstituted: room temperature for up to 5 hours	Store at 20-25°C (68-77°F) Excursions: 15-30°C (59-86°F) Reconstituted: room temperature for up to 24 hours

Synercid (quinupristin and dalfopristin) [package insert]; Cubicin (daptomycin) [package insert]; Tigecycline [package insert]

	opeptide
	Daptomycin (Cubicin)
MOA	Inhibits protein, DNA, and RNA synthesis
Dosing / Adjustments	SSTI: 4 mg/kg IV every 24 hours Bacteremia, IE: 6 mg/kg every 24 hours Severe: 8 to 12 mg/kg IV every 24 hours Renal adjustments required, dose post HD
ADEs / Comments	Myopathy, neuropathy, acute eosinophilic PNA Inactivated by pulmonary surfactant
Storage	Store at 2-8°C (36-46°F)

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Linoa	h coorso	tain
Liboð	iycopro	lein

	Telavancin (Vibativ)	Dalbavancin (Dalvance)	Oritavancin (Orbactiv)
МОА	Disrupts cell wall synthesis and membrane integrity	Disrupts cell wall synthesis	Inhibits cell wall transglycosylation and transpeptidation; disrupts membrane integrity
Dosing /	10 mg/kg IV every 24 hours	1000 mg IV day 1; 500 mg IV day 8	1200 mg IV once
Adjustments	Renal adjustments required	Renal adjustments required	No renal or hepatic adjustments
ADEs / Comments	BBW: increase mortality in severe renal impairment	Red man syndrome with rapid infusion rates	Hypersensitivity infusion site reactions False elevations in aPTT and INR
Storage	Store at 2-8°C (35-46°F) Excursions: 25°C (77°F)	Store at 25°C (77°F) Excursions: 15-30°C (59-86°F)	Store at 20-25°C (68-77°F) Excursions: 15-30°C (59-86°F)
		Reconstituted: room temperature for up to 48 hours	Reconstituted: room temperature for 6 hours; use within 12 hours when refrigerated

Vibativ (telavancin) [package insert; Dalvance (dalbavancin) [package insert]; Orbactiv (oritavancin) [package insert]



Question 3

You see a label print for oritavancin. What would be an appropriate

dosing you would expect to see?

- A. 1200 mg IV once
- B. 1200 mg IV every 12 hours
- c. 1200 mg IV every 24 hours









