

NR mid term questions

- 1) **what specific marker is used to indicate success in evaluating the therapeutic effects of ART for HIV treatment:** Reduction in plasma HIV RNA
- 2) **What role do CD4 T-cells play in the immune system?** CD4 T-cells indeed play a vital role in restoring and maintaining the immune system's function. They help coordinate the immune response and activate other immune cells to fight infections effectively.
- 3) **Why is it important to know which antibiotics do not require renal dose adjustments in patients with kidney problems?** it allows healthcare providers to prescribe these antibiotics safely without the need for dosage modifications, ensuring effective treatment while minimizing the risk of medication-related complications.
 - **Azithromycin, ceftriaxone, clindamycin, doxycycline, linezolid and rifampin (CAD-LC-R)**
- 4) **What are some potential benefits of using beta-blockers in healthcare:**
 - **They are commonly used to lower blood pressure and reduce intraocular pressure in glaucoma.**
- 5) **Sideeffects**
 - **Common side effects of beta-blockers include bradycardia (slow heart rate) and bronchoconstriction (narrowing of the airways), especially in patients with certain conditions like asthma.**
- 6) **When deciding whether to prescribe antibiotics or observe a child with acute otitis media**
 - For children under 6 months old, antibiotics are typically prescribed.
 - For children between 6 months and 2 years old, the decision depends on the certainty of the diagnosis.
 - For children over 2 years old, the decision is based on both the age of the child and the certainty of the diagnosis. Observation may be recommended for less severe cases.
- 7) **Why is tinea capitis(ringworm of scalp) considered difficult to treat, and what are some common antifungal drugs used in its treatment?**
 - Griseofulvin and terbinafine (systematic antifungal therapy)
- 8) **Bacteriostatic inhibitors of protein synthesis: tetracycline, macrolides and clindamycin**
- 9) **Can you name a specific beta-blocker that is β_1 -selective and commonly used in clinical practice? Metoprolol used for hypertension and heart related issues**
- 10) **What makes imipenem unique among antibiotics, especially in terms of its spectrum of activity and resistance profile?**
 - Imipenem (carbapenems)- broad spectrum antibiotic is indeed unique among antibiotics for its broad spectrum of activity, being effective against anaerobic bacteria and a wide range of gram-positive and gram-negative pathogens, making it a valuable option for treating serious infections.
- 11) **Nafcillin is indeed a narrow-spectrum antibiotic.**
- 12) **Trimethoprim should be avoided with patients with what deficiency?: folate**
- 13) **What condition can manifest as a result of a folate deficiency when taking trimethoprim? Megaloblastic anemia**
- 14) **Sulfonamides can lead to kernicterus in infants if taken near term during pregnancy.**