#### **ANSWERS**

#### **Drug Interactions and Contraindications**

**1.Answer**: Notify the physician to stop aspirin to reduce the risk of bleeding

**Rationale:** Aspirin potentiates the anticoagulant effect of warfarin and increases bleeding risk.

2. Answer: Crackers and tossed salad

**Rationale:** With MAOIs, the client should avoid ingesting foods that are high in tyramine. Ingestion of these foods could trigger a potentially fatal hypertensive crisis. Foods to avoid include yogurt; aged cheeses; smoked or processed meats; red wines; and fruits such as avocados, raisins, or figs.

3. Answer: Discontinue metformin due to lactic acidosis risk
Rationale: Metformin is contraindicated in renal failure because
accumulation increases the risk of lactic acidosis.

4. Answer: Risk of hyperkalemia

**Rationale:** ACE inhibitors decrease aldosterone, leading to potassium retention; adding supplements can cause hyperkalemia.

**5. Answer: The drug may induce bronchospasm and worsen asthma Rationale:** Non-selective beta blockers like propranolol block B2 receptors in the lungs, causing bronchoconstriction.

**6. Answer: It can cause profound hypotension and syncope Rationale:** Both drugs cause vasodilation; together they can lead to life-threatening hypotension.

7. Answer: Lithium toxicity

Rationale: Diuretics decrease sodium levels, leading to increased

lithium reabsorption and potential toxicity.

### 8. Answer: Avoid grapefruit juice to prevent drug accumulation and muscle toxicity

**Rationale:** Grapefruit juice inhibits CYP3A4 enzymes, increasing statin levels and risk of rhabdomyolysis.

# **9. Answer: Decreases INR and reduces drug effectiveness Rationale**: Vitamin K in green vegetables reduces warfarin's anticoagulant effect, lowering INR.

**10. Answer: Avoid NSAIDs and consult physician for alternatives Rationale:** NSAIDs inhibit prostaglandins that protect gastric mucosa, increasing ulcer risk.

**11. Answer: The drug may worsen heart failure due to negative inotropy Rationale:** Verapamil decreases contractility, which can exacerbate heart failure symptoms.

#### 12. Answer: Separate doses by at least 2 hours to avoid absorption interference

**Rationale:** Antacids bind tetracyclines, decreasing antibiotic absorption; spacing doses prevents this.

### 13. Answer: Steroids mask infection signs and suppress immune response

**Rationale:** Corticosteroids suppress immune function, masking infections and delaying treatment.

#### 14. Answer: Omeprazole inhibits activation of clopidogrel, reducing its effectiveness

**Rationale:** Omeprazole inhibits CYP2C19, the enzyme needed to activate clopidogrel, leading to reduced antiplatelet action.

## **15: Answer: Hold the medication and verify cross-sensitivity with the prescriber**

**Password:** Some patients allergic to sulfa drugs may react to loop diuretics; verify safety before administration.





