

To create an exam-style question from the content covered in NR 546 Week 1, we first need to identify the key topics discussed during the week.

**Example Exam-Style Question:**

**Topic: Pharmacokinetics and Pharmacodynamics**

**Question:**

A 65-year-old male patient with a history of hypertension and chronic kidney disease is prescribed Lisinopril, an ACE inhibitor, to manage his blood pressure. Considering the patient's renal function, which of the following pharmacokinetic properties of Lisinopril is most important to monitor, and why?

- A) Absorption
- B) Distribution
- C) Metabolism
- D) Excretion

**Correct Answer: D) Excretion**

**Explanation:**

Lisinopril is primarily excreted by the kidneys. In patients with chronic kidney disease, the excretion of drugs that are eliminated through the renal route can be significantly impaired. This can lead to drug accumulation and increased risk of toxicity. Therefore, it is crucial to monitor the excretion of Lisinopril in this patient to adjust the dosage appropriately and avoid adverse effects. Monitoring renal function through tests such as serum creatinine and glomerular filtration rate (GFR) is essential in managing the patient's medication regimen safely.