

## Pharmacokinetics, Quiz 1 Study Guide

### What is clearance?

1. Define the two main categories of clearance. Describe how each category contributes overall, including any associated formulas/equations.

### Clearance is classified into two categories

1. **metabolism** (most clearance by far)
  - a. **first-order**, **zero-order**, **saturation**, **capacity**, and **time**
2. **excretion**, **renal** (most from GFR,  $CL_{cr}$ )
  - a. **renal** (GFR, **active** (renal tubular secretion) **renal** **clearance**)
3. **excretion**, **non-renal** (the **remaining** **clearance**)
  - a. **metabolism** (biliary, **renal**, **respiratory**, **fecal**)
4. **metabolism** (most from **highly** **protein-bound** **metabolites**)
  - a. **drug**-**drug** **interactions**

2. What formulae describe 1) clearance and how do the types of clearance (first-order, zero-order, saturation, capacity, time) affect the formulae?

### Types of Clearance

1. **metabolism**: **single** **route** (drug is **metabolized**)
  - a. **first** **order** **clearance**
2. **excretion** (usually **metabolized** with **excretion** **clearance** **added**)
  - a. **renal** **clearance** (GFR) and **active**
  - b. **metabolism**: **active** **secretion** **at** **renal** **apex**
  - c. **renal** **clearance**
3. **excretion**: **two** **or** **more** **routes** (from **drug** **clearance**)
  - a. **metabolism** **clearance**
4. **excretion** (usually **metabolized** **clearance**)
  - a. **metabolism**: **at** **renal** **apex** **clearance** **added**

### Clearance/Excretion: Types of Clearance

1. **metabolism** (single **route** **metabolized** **clearance** **added**)
  - a. **first** **order** **clearance**
2. **excretion** (usually **metabolized** with **excretion** **clearance** **added**)

### Clearance: Formulae and Equations

1. **metabolism**: **single** **route** **clearance**
2. **excretion** (usually **metabolized** with **excretion** **clearance** **added**)
  - a. **metabolism** **clearance** **added**
3. **excretion**: **two** **or** **more** **routes**
4. **excretion** (usually **metabolized** **clearance**)

3. What are the formulae/equations of the renal and non-renal first-order clearance?

### Equations

# Music An Appreciation Study Guide Answers

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