

Pharmacokinetics in Pregnancy

Objectives

- Explain the basic principles of drug pharmacokinetics
- Discuss how drug pharmacokinetics are affected by the physiologic changes of pregnancy
- Review the impact of pregnancy on maternal pharmacokinetics of medications

Content Outline

1. Pharmacokinetics Principles
 - A. Bioavailability
 - B. Drug clearance
 - C. Protein binding
 - D. Metabolism
 - E. Volume of distribution
 - F. Half life
2. Physiologic Changes of Pregnancy and Their Effects on Pharmacokinetics
 - A. Renal
 - B. Hepatic
 - C. Cardiac
3. Impact of Pregnancy on Maternal Pharmacokinetics of Medications
 - A. Drugs that work differently during pregnancy
 - B. Drug pharmacokinetics changes during pregnancy
 - C. Dosing change considerations during pregnancy

Reading Material Resources

Module WB2430: Pharmacokinetics in Pregnancy is based on the resource listed below. A copy of the resource is included with the module.

Chapter 3, Impact on Pregnancy on Maternal Pharmacokinetics of Medications, *Clinical Pharmacology in Pregnancy*, Mattison, Donald, Elsevier, 2022, 19-46