Lesson 4.

General patterns of behavior of xenobiotics in the body. Receipt, distribution, withdrawal. Factors affecting the distribution of xenobiotics in the body. Toxicokinetics. Basic toxicokinetic parameters of distribution.

- 1. Write the definition of TOXICOKINETICS.
- 2. Write the definitions of ABSORPTION (11)
- 3. What kind MAIN ABSORPTION ROUTES/BARRIERS ARE do you know? 12
- 4. Structure of a cell membrane 14
- Describe of BASIC MECHANISMS OF XENOBIOTIC TRANSMEMBRANE TRANSPORT 15-23
- 6. Factors affecting absorption 24
- 7. Main exposure routes (Oral (GI tract), Inhalation (lung: respiratory tract), Dermal (Skin). Describe them 32-37
- 8. DISTRIBUTION 39-43
- Physiological barriers. The blood-brain barrier . 51 The placental barrier
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- 10. ELIMINATION /EXCRETION 56-69
- 11. Basic toxicokinetic parameters of distribution. Volume of distribution (Vd) 44, Bioavaibility 46, half-life of the toxicant, clearance