**Neurotransmitter Systems**

**Main neurotransmitters**

- Acetylcholine
- Dopamine
- GABA
- Glutamate
- Histamine
- Norepinephrine
- Serotonin
- Vesicles

**Selective neurological diseases**

- Alzheimer’s disease
- Amyotrophic lateral sclerosis
- Asthma
- Depression
- Huntington’s disease
- Parkinson’s disease
- Schizophrenia

**Pharmacological targets**

- Acetylcholinesterase inhibitors
- Antidepressants
- Dopamine receptor agonists
- Serotonin reuptake inhibitors

**DRUG TREATMENTS**

- Drugs that stimulate or inhibit the release of neurotransmitters
- Drugs that block or enhance the activity of neurotransmitter receptors
- Drugs that affect the synthesis or degradation of neurotransmitters

**Pharmacokinetics**

- Absorption
- Distribution
- Metabolism
- Excretion

**Side effects**

- Drowsiness
- Dry mouth
- Nausea
- Constipation

**References**


---

**Drug Information**

- **NMDA Receptor Antagonists**
  - Dextromethorphan
  - Ketamine
  - PCP

- **GABA Receptor Agonists**
  - Ativan
  - Librium
  - Xanax

- ** Dopamine Receptor Agonists **
  - L-Dopa
  - Sinemet
  - Pristiq

---

**Drug Interactions**

- **Acetylcholinesterase Inhibitors**
  - Cholinergic drugs
  - Cholinesterase inhibitors

- **Monoamine Oxidase Inhibitors**
  - Catecholamines
  - Sympathomimetics

---

**Drug Administration**

- **Neurotransmitter Parameters**
  - Concentration
  - Dynamics
  - Reuptake

---

**References**


---

**Further Reading**