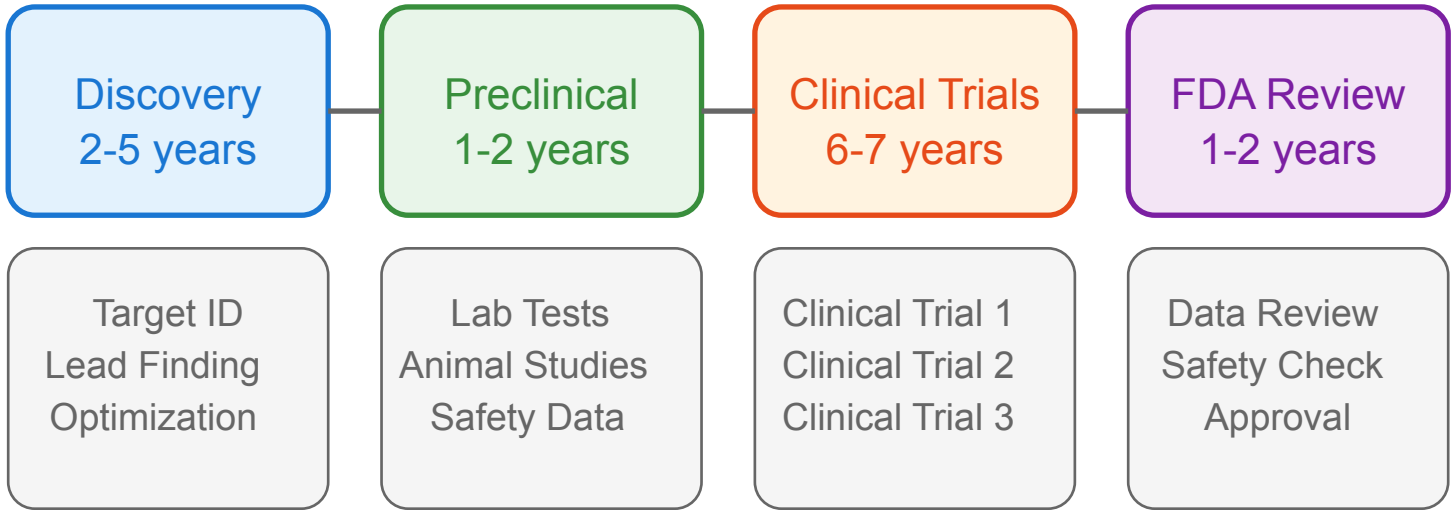


# Drug Development Process Discussion



Total Development Time: 10-15 Years

Only 1 in 10,000 compounds reaches market approval

## Useful Vocabulary

clinical trials • preclinical testing • FDA approval • drug discovery • target identification  
safety data • phase studies • lead optimization • animal testing • patient recruitment  
drug efficacy • regulatory review • development timeline • side effects • clinical phases

### Process Overview

- What is the total development time?
- Which phase takes the longest?

### Clinical Trials Analysis

- Why are there three trial phases?
- How are patients selected?

### Safety and Regulation

- How is safety monitored?
- What can stop development?

### Development Costs

- Why is drug development expensive?
- What if a drug fails?

### Discussion Topics

- How does this process affect drug prices?
- How might AI and machine learning change drug development??