Out of every 10,000-15,000 new compounds identified during discovery, five are considered safe for testing in human volunteers. Only one of these compounds is typically approved as a marketed drug.

**Drug Development Process**

- **Pre-discovery**: 250 Compounds
- **Pre-clinical**: 5 Compounds
- **Clinical Trials**: 1 FDA-Approved Drug

**3-6 Years**
- Drug Discovery
- Pre-clinical
- Phase I
  - 20-100 Volunteers
- Phase II
  - 100-500 Volunteers
- Phase III
  - 1,000-5,000 Volunteers
- IND Submitted

**6-7 Years**
- Clinical Trials
- FDA Review
- Manufacturing

**0.5-2 Years**
- Phase IV
  - Post-Approval
- NDA Submitted

**Average Cost**: $1 billion+

**Duration**: 10-15 years*

*Source: ACRO

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