

















Drug Discovery Stage 3:Clinical Trial

Clinical trial conduct according to the guideline of ICMR-Central Ethics Committee on Human Research (CECHR)

Phase 0 (Micro/Pilot Phase)	Phase I	Phase II	Phase III	Phase IV (Pharmacovigilance)
 10-15 healthy voluntary To understand the drug response in human being Administered at subtherapeutic dose For Novel drug 	 10-100 healthy voluntary Safety evaluation Pharmacokinetic study Pharmacodynamic study Side effects 	 100-300 patients Efficacy evaluation Assessment of dosing requirements Long term toxicity 	 1000+ patients Efficacy & Safety evaluation Comparative study with standard (Therapeutic & Side effects) 	 Post marketing Surveillance ADR reporting & Assess the Risk/Benefit ratio of a products





Drug Discovery Era

- √ 10th Century: Coffee
- √ 1803-05: Morphine
- √ 1877: Paracetamol
- √ 1901: Adrenaline
- √ 1912: Vit. C
- √ 1921: Insulin
- √ 1928: Penicillin
- √ 1961: Ibuprofen
- ✓ 2001: Etoricoxib





/pharmacologyconceptsbyrajeshchoudhary

Thank You

Drug Discovery & Development