

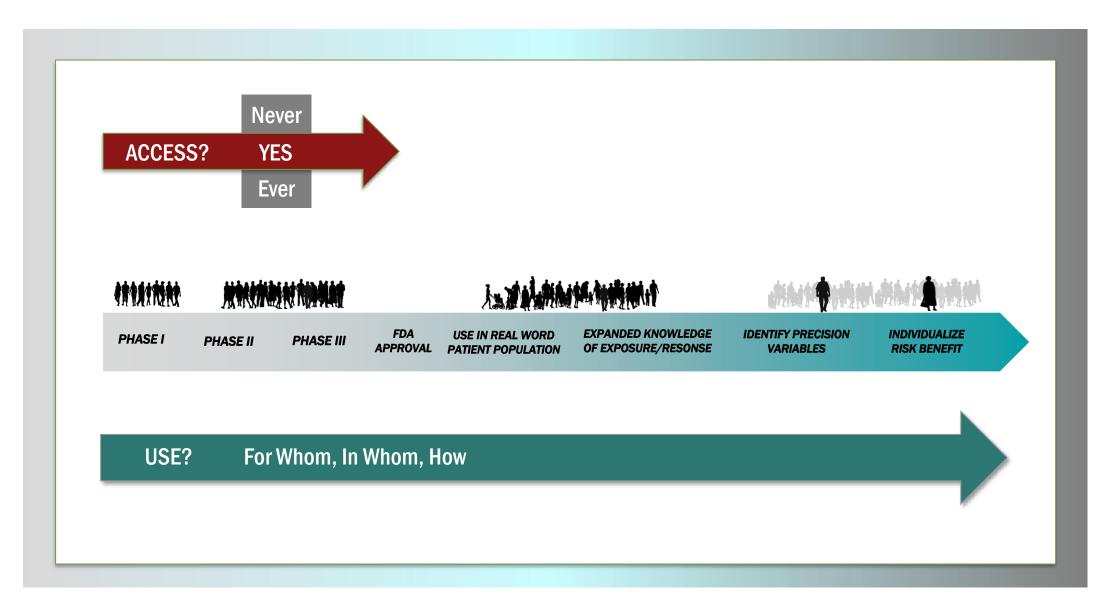
FDA OCP/MCERSI Workshop:

Clinical Pharmacology Guidances Advancing Drug Development and Regulatory Assessment: Role and Opportunities

May 8-9, 2024



Patient-Centered Regulatory Decision Making





Is Pharmaceutical R&D in Crisis?

Better than the Beatles



Throw Money at It



Basic Research / Brute Force

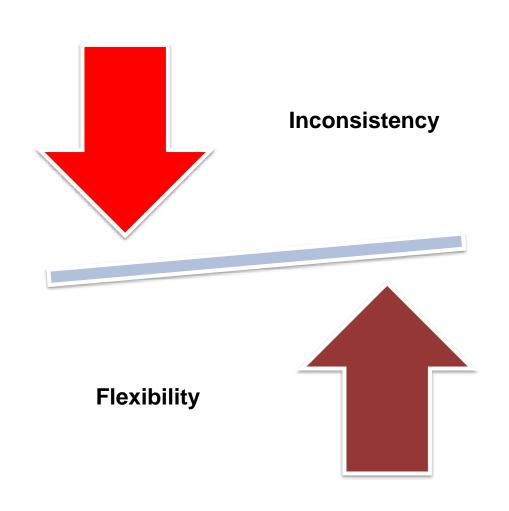


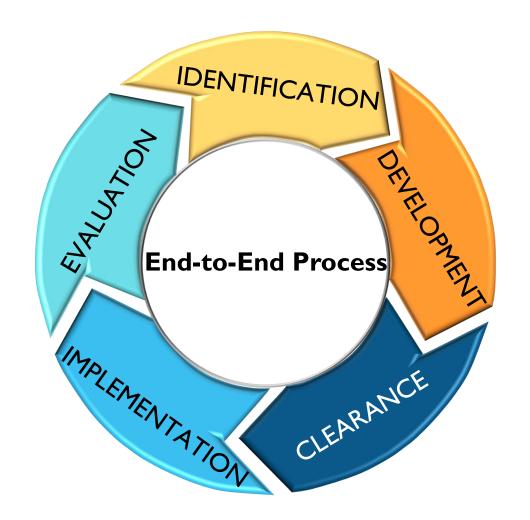
Cautious Regulator





Guidance & Policy: Best Practices

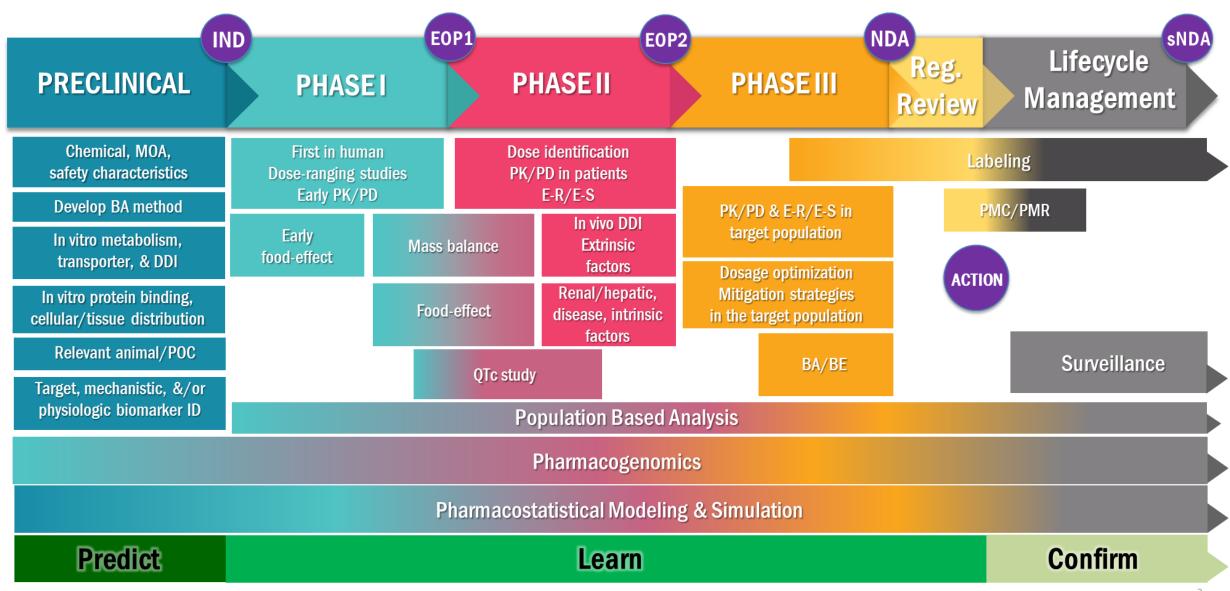




FDA U.S. FOOD & DRUG **Guidance & Policy: A Community Effort ADMINISTRA** FDA **SMEs MPAC1** IDENTIFICATION ENALATION **FEEDBACK** STAKEHOLDERS End-to-End Process IMPLEMENTATION. **TRACK** TRAINING CLEARANCE **RESOURCES ENGAGE** & SUPPORT **OUTREACH FACILITATE**

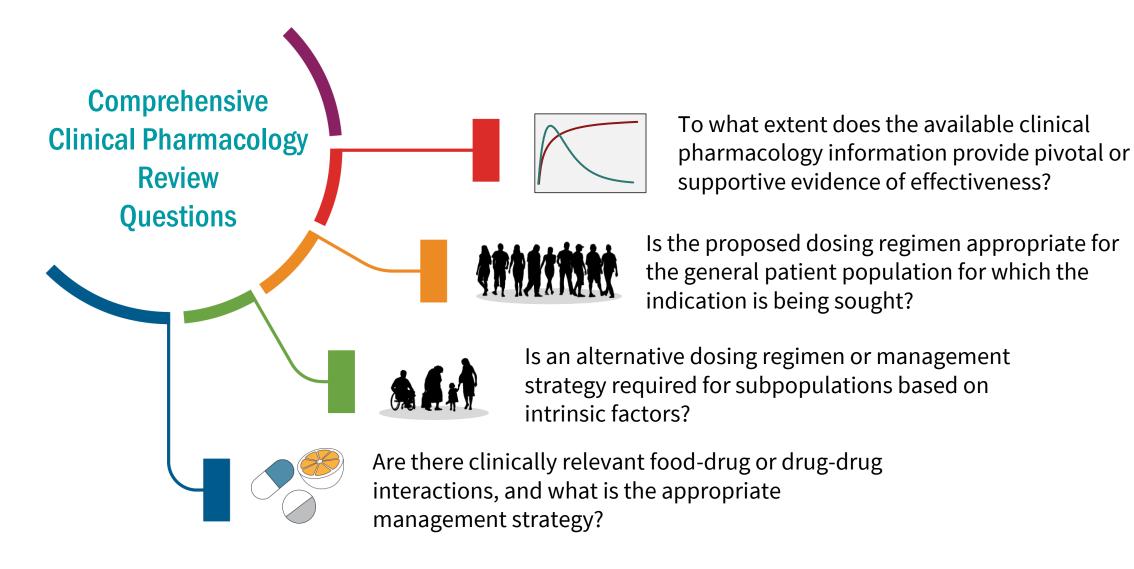
"Classical" Clinical Pharmacology







Clinical Pharmacology: Key Questions



Important Trends



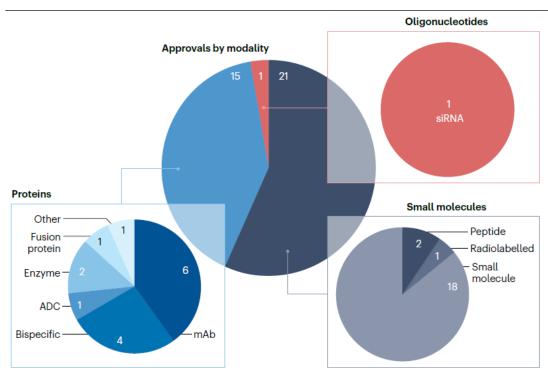
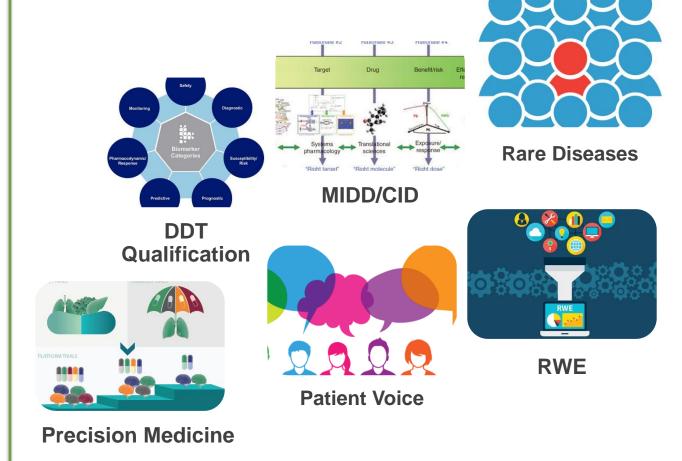
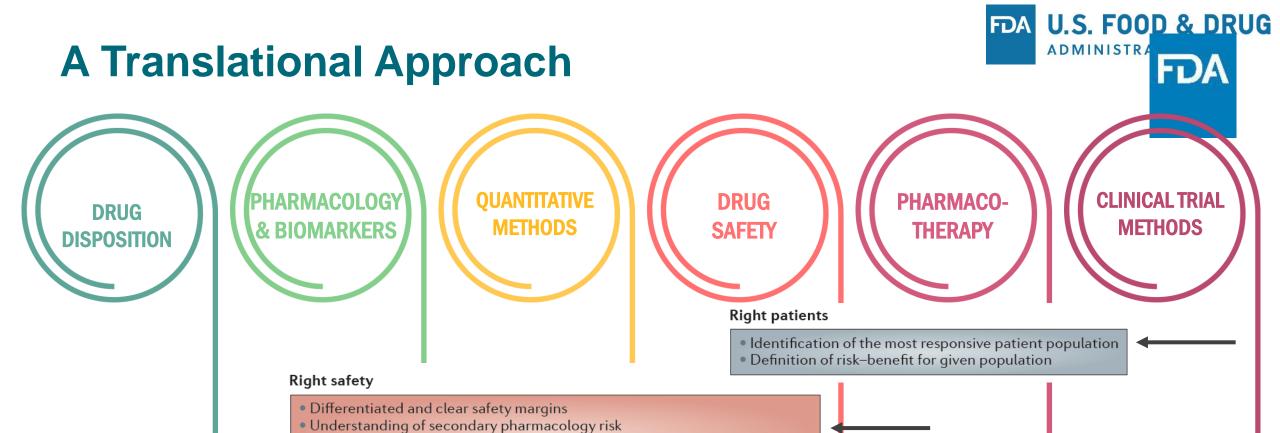


Fig. 3 | **CDER** approvals by modality. Small molecules, including peptides of up to 40 amino acids in length, and oligonucleotides are approved as new molecular entities (NMEs). Protein-based candidates are approved through biologics license applications (BLAs). ADC, antibody–drug conjugate; mAb, monoclonal antibody; siRNA, small interfering RNA. Source: *Nature Reviews Drug Discovery*.





Right tissue

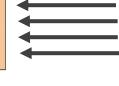
- Adequate bioavailability and tissue exposure
- Definition of PD biomarkers
- Clear understanding of preclinical and clinical PK/PD

Understanding of target liability

Understanding of drug-drug interactions

Right target

- Strong link between target and disease
- Differentiated efficacy
- Available and predictive biomarkers

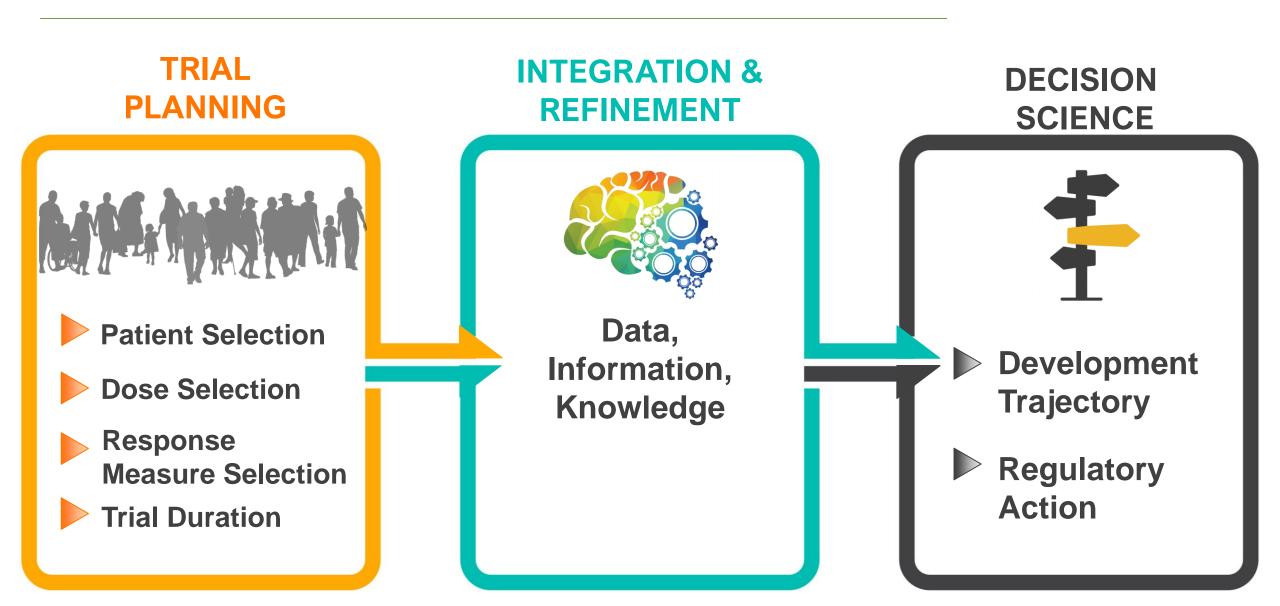


Understanding of reactive metabolites, genotoxicity, drug-drug interactions



Our Charge







FDA OCP/MCERSI Workshop:

Clinical Pharmacology Guidances Advancing Drug Development and Regulatory Assessment: Role and Opportunities

May 8-9, 2024