

Early Drug Development Package

Welcome and congratulations on developing your pharmaceutical drug or concept for a new drug. Compliance Insight has put together information to assist with navigation of the FDA website and determining how to move forward with your new invention. The information and attachments center around FDA regulations related to pharmaceuticals for human use.

FDA Website Links

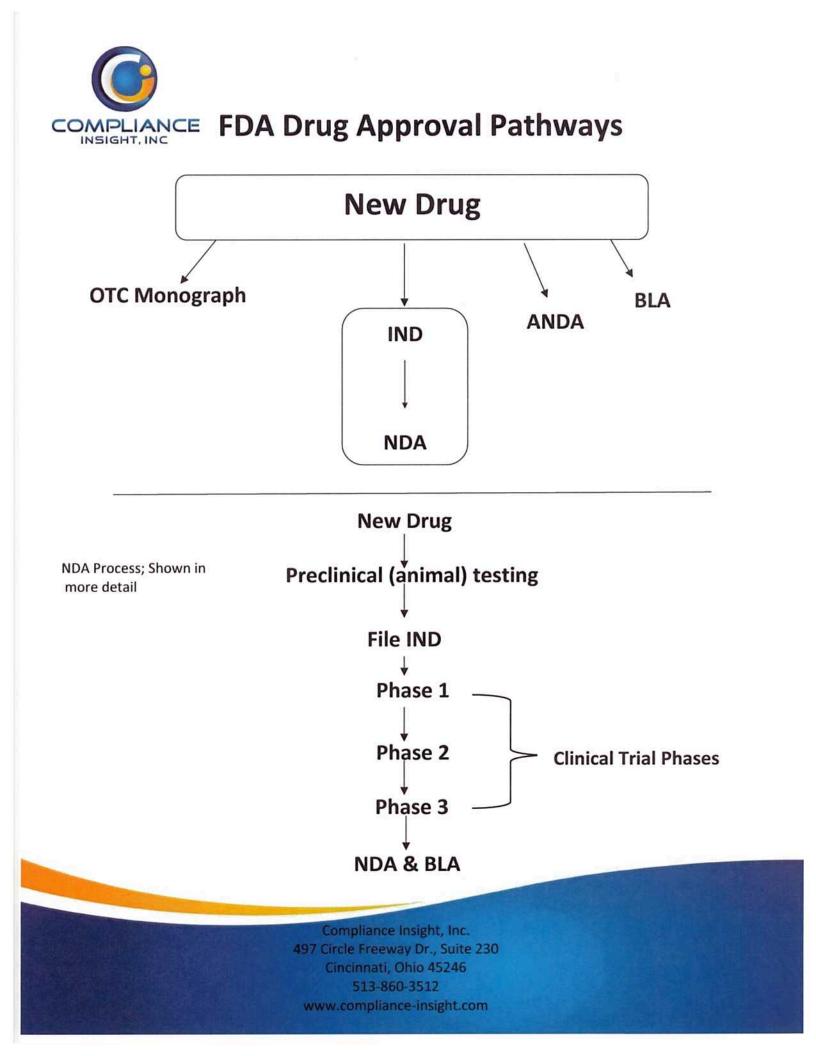
- 1. The link to FDA's webpage on "How Drugs are Developed and Approved", "<u>How Drugs are Developed and Approved</u>"
- The link to FDA Good Manufacturing Practices, 21 CFR Part 210/211. These are the minimum manufacturing requirements for drug manufacturing, <u>CFR – Code of Regulations Title 21Part 210</u> <u>CFR – Code of Federal Regulations Title 21 Part 211</u>
- 3. Link to the FDA Pre-IND Consultation Program, <u>Pre-IND Consultation Program</u>
- Link to the FDA Types of Applications: IND, NDA, ANDA, OTC and Entire Drug Development process, New Drug Development and Review Process

The Drug Development Process

What is included?

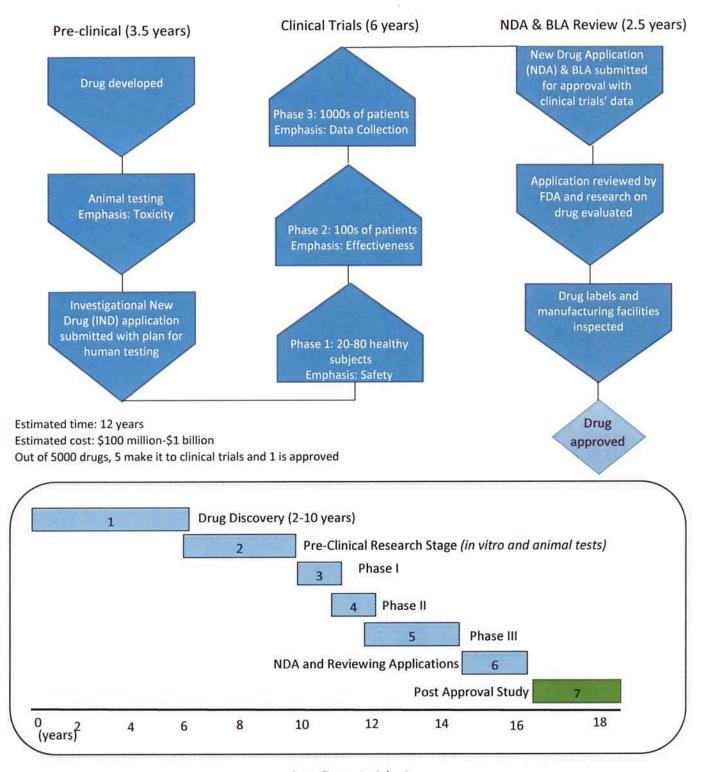
- 1. FDA Drug Approval pathways
- 2. FDA Drug Approval Process and Timeline
- 3. Abbreviated New Drug Application (ANDA) Timeline
- 4. OTC Drug Monograph Process
- 5. FDA Pre-IND Contact List
- 6. FY 2023 GDUFA & PDUFA User Fees
- 7. Minimum Required Documents for Phases 1-3 (3 pages)
- 8. Common issues with filing an ANDA or NDA
- 9. A basic list of SOPs recommended for Virtual and Start UP companies. This list will be modified based upon the drug manufacturing process

For additional questions/concerns please set up an initial consultation by calling 513-860-3512 or email info@compliance-insight.com





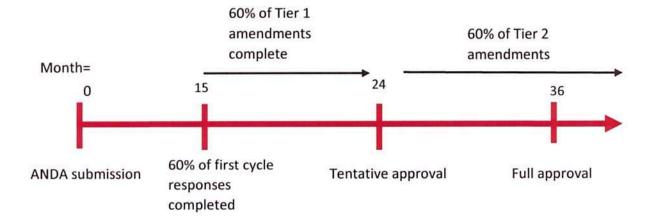
FDA Drug Approval Process and Timeline



www.nationaljournal.com www.justforecast.com



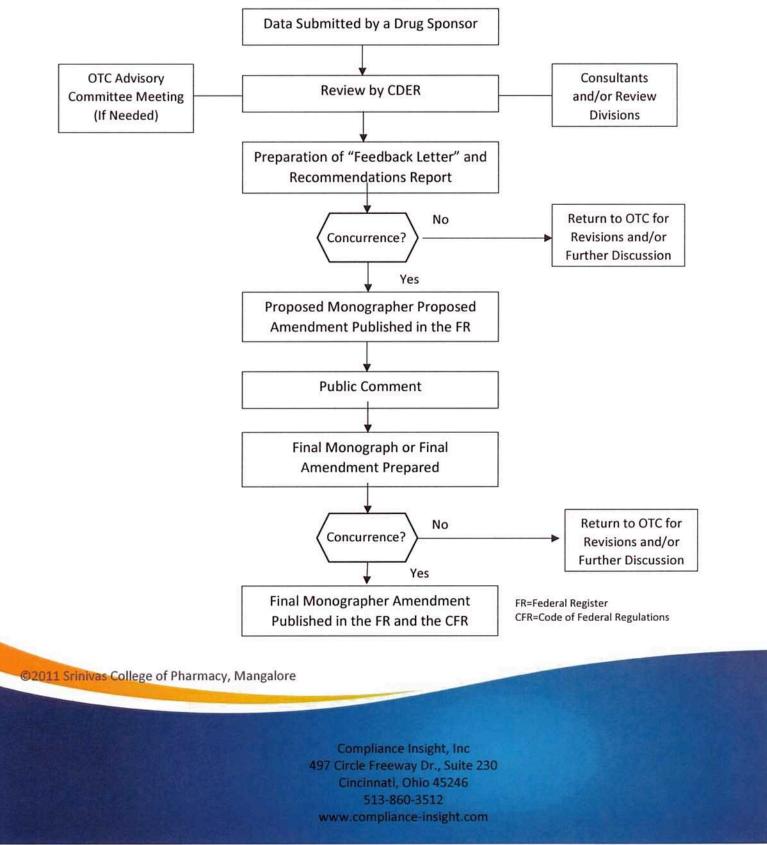
ANDA Timeline



Source: FDA, statnews.com



OTC Drug Monograph Process



CENTER FOR DRUG EVALUATION AND RESEARCH PRE-IND Consultation Contacts

microbial Office of Hematology and	15.3	 Anti- oducts Anti- Beellas oducts Christy Cottrell 203-796-4256 Alice Kacuba 301-796-1381 Fax: 301-796-9899 6-9881 Division of Oncology Products (2) Monica Hughes 301-796-9849 Fax: 301-796-9849 Indiard Fax: 301-796-9849 Fax: 301-796-9848 Theresa A. Carioti S01-796-9848 Fax: 301-796-9848 Pivision of Hematology Products Theresa A. Carioti S01-796-9848 Fax: 301-796-9848 Pivision of Oncology Products Theresa A. Carioti S01-796-9848 Pivision of Pirece any of the point of contocts Pisted above.)
Office of Antimicrobial	Products: PRE-IND Consultation Program	Division of Anti- Infective Products Carrmen DeBellas 301-796-1203 Maureen Dillion- Parker 301-796-0706 Fax: 301-796-9881 Transplant & Ophthalmology Products Diana Williard 301-796-9880 Fax: 301-796-9880 Fax: 301-796-9883 Division Anti-Viral Products Nina Mani Karen Winestock 301-796-1500 Fax: 301-796-9883
	Office of Drug Evaluation IV	Division of Division of Nonprescription Clinical Evaluation Dan Brum 301-796-0578 Fax: 301-796-9899 Fax: 301-796-9848 Soll-796-9848 Fax: 301-796-9848 Fax: 301-796-9848 Fax: 301-796-9848 Fax: 301-796-9899 Fax: 301-796-0578 Fax: 301-796-0899 Fax: 301-796-0846 Fax: 301-595-7865 Fax: 301-595-7865
	Office of Drug Evaluation III	Division of Gastroenterology & Inborn Error Products Richard (Wes) Ishihara Brian Strongin Brian Strongin 301-796-9906Division of Evalu Dan 301-796-9906Division of Dermatology & Dental Products Barbara Gould Fax: 301-796-9895Division of Prescription Bunision of Dan 301-796-9895Division of Dermatology & Develc Barbara Gould Fax: 301-796-9895Division of Prescription Barbara Gould Fax: 301-796-9895Division of Dermatology & Division of Barbara Gould Fax: 301-796-9895Division of Prescription Botanical R 301-796-9897Division of Fax: 301-796-9897Division Botanical R 301-796-9897Division Botanical R 301-796-9897Compliance Insight, IncCompliance Insight, Inc
	Office of Drug Evaluation II	Division of Anesthesia, Analgesia & Addiction Products Parinda Jani 301-796-1232 Matt Sullivan 301-796-1245 Fax: 301-796-9722 Division of Metabolism & Endocrinology Products Julie Van der Waag 301-796-1280 Pamela Lucarelli 310-796-3961 Fax: 301-796-9712 Division of Pulmonary, Allergy and Rheumatology Products Sandy Barnes 301-796-1174 Fax: 301-796-9728
COMPLIANCE INSIGHT.INC	Office of Drug Evaluation I	Division of Cardiovascular & Renal Products Edward Fromm 301-796-2240 Fax: 301-796-9841 Division of Neurology Products Jacqueline Ware 301-796-1160 Fax: 301-796-9842 Division of Psychiatry Products Steven Hardeman 301-796-9838 Fax: 301-796-9838

Updated on 4/12/2017

https://www.fda.gov/media/77025/download

www.compliance-insight.com

513-860-3512



2023 GDUFA User Fees

Application	Standard Fee
Abbreviated New Drug Application (ANDA)	\$240,582
Drug Master File	\$78,293
Facilities	Standard Fee
Active Pharmaceutical Ingredient (API)-	\$37,544
Domestic	
Active Pharmaceutical Ingredient (API)-	\$52,544
Foreign	
Finished Dosage Form (FDF)-Domestic	\$213,134
Finished Dosage Form (FDF)-Foreign	\$228,134
Contract Manufacturing Organization (CMO)	\$51,152
Contract Manufacturing Organization (CMO)-	\$66,152
Foreign	
GDUFA Program	Standard Fee
Large size operation generic drug applicant	\$1,620,556
Medium size operation generic drug	\$648,222
applicant	
Small size operation generic drug applicant	\$162,056



Minimum Required Documents for Phases 1-3

API Certificate Of Analysis
API test method description and specifications (if available)
API stability data to support Phase 1 studies
FP manufacturing process flow diagram
FP stability data to support Phase 1 studies
Pharmacology and Distribution
Toxicology tabulation data

Phase 1 Required Documents

https://www.fda.gov/downloads/Drugs/DevelopmentApprovalProcess/HowDrugsareDevelopedandApproved/ApprovalApplications/ InvestigationalNewDrugINDApplication/Overview/UCM166356.pdf



Phase 2 Required Documents

Data from first Phase Clinical trial plus any updates and safety	Updated API manufacturing process flow diagram with added details
concerns	
Phase 2 clinical study protocol outline	API stability data to support Phase 1 and 2 studies
API characterization	API impurity profile
Reference/Working standard	API container/closure system
API test method description and specifications (if available)	Updated FP manufacturing process flow diagram with details
Specs for each excipient with test methods. Test method validation summary should be available	Updated specs for FP and test methods. Test method validation summary should be available
FP Labeling mock up	FP stability data to support Phase 1 and 2 studies
Environmental assessment updates	Updated FP Quantitative Composition

Also see Phase 1 required documents

https://www.fda.gov/downloads/Drugs/DevelopmentApprovalProcess/HowDrugsareDevelopedandApproved/ApprovalApplications/ InvestigationalNewDrugINDApplication/Overview/UCM166356.pdf



Phase 3 Required Documents

Clinical study protocol for Phase 3 New API impurities update with limits odated manufacturing flow chart and detailed step by step description Stress study data for API
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step by step description Stress study data for API
Stress study data for API
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I stability data to support Phase 1 -2 -3 studios
I stability data to support Phase 1 2 3 studios
I stability data to support Phase 1 2 2 studios
i stability uata to support Fliase 1, 2, 5 studies
and stability protocol
Degradation profile and limits
Updated FP labeling
Composition and control of Placebo
pdated test methods and specifications with
validation data available
x

Also see Phases 1 & 2 required documents

https://www.fda.gov/downloads/Drugs/DevelopmentApprovalProcess/HowDrugsareDevelopedandApproved/ApprovalApplications/ InvestigationalNewDrugINDApplication/Overview/UCM166356.pdf



Common issues filing an ANDA or NDA

- 1. Unexpected safety issues
- 2. Failure to demonstrate drug effectiveness
- 3. Added clinical studies required for more people, different types of people, or for a longer time period
- 4. Manufacturing issues noted prior to or during the Pre-Approval Inspection (PAI) related to failure to meet GMPs
- 5. Manufacturing scale up issues
- 6. Supplier issues

The drug application requires significant times and resources. If preparing these submissions becomes an overwhelming hurdle, we can help.

www.fda.gov/Drugs/ResourcesForYou/Consumers/ucm289601.htm



COMPLIANCE SOP Index for Virtual/Startup Companies

P Number	Title
QA-XXX	Quality Assurance
001	General Requirements for SOPs
002	Quality Assurance
003	SOP Numbering System
004	Change Control
005	Documentation Practices
006	Personnel Training
007	Customer Complaints
008	Returned Goods
009	Product Recall, Field Alerts and Market Withdrawal
010	Records Retention
011	Document Storage Guidelines
012	Internal Quality Audits
013	Qualification of Raw Material Vendors
014	Conducting Investigations
015	Deviation/Investigation Reports
016	CAPA Program
017	Annual Product Review
018	Master Batch Records Preparation Guidelines
019	Retention & Retrievability of Executed Batch Records
020	Qualification Management of 3 rd Party Vendors
021	Vendor Audits
022	Quality Agreements
023	Hosting a GMP Audit
024	Labeling Specifications
025	Labeling Reconciliation
026	Trend Analysis
027	Management Notification
028	Quality Roles & Responsibilities
029	Annual Report & Supplements
030	Process Risk Analysis
031	Part 11 Compliance-Change Control
032	Part 11 Compliance-General Requirements
033	Security Controls
034	Electronic Records
035	Electronic Signatures

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OP Number	Title
VA-XXX	Validation
001	Validation
002	Validation of Manufacturing Processes
003	Software Validation
004	Equipment Qualification
005	Method validation
QC-XXX	Quality Control
001	Specifications for Raw materials & Finished Product
002	Retention Samples
003	Certificate of Analysis
004	Handling of Out of Specification (OOS) Results
005	Stability Program
006	Impurity Profile
SD-XXX	Packaging, Storage and Distribution
001	Shipping Specifications for Product
002	Warehousing and Distribution of GMP manufactured Products
003	Product Distribution Records
004	Inventory Control of Finished Products

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