# Section VI. The Abbreviated NDA (ANDA), 505(b)(2) Applications, and Patent and Exclusivity Issues

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#### **Overview of Section VI**

- Eligibility for ANDA Consideration
- Content and Organization of an ANDA
- Sameness, Bioequivalence, and Therapeutic Equivalence
- Office of Generic Drugs' Review Process
- 505(b)(2) Applications
- Patent Provisions / Patent Term Restoration
- Market Exclusivity
- Strategies Affecting Exclusivity

#### **ANDA History**

- Before 1984, Safety and Efficacy of copies of approved drugs was assumed
  - ANDA Required Submission of Mfg. Process Info. & Labeling
  - "Paper" NDA Policy Me-Too Drugs established Safety and Efficacy via Published Literature, Public Data
- The Drug Price Competition and Patent Term Restoration Act of 1984 (Waxman-Hatch Act)
  - Specifically permits "copying" of an already-approved drug
  - Revised ANDA to Modern Day Requirements, Adds Bioequivalence Studies
  - Patent Extensions & Market Exclusivity for NDA Drugs

#### **Eligibility for ANDA Consideration**

- FDA Must Preapprove (Office of Generic Drugs, OGD)
- Must Be Same As an Approved Drug (NDA)
- Bioequivalence Data comparing to RLD
- Labeling Must Be Identical
- Must File Patent Certification to RLD Orange Book listed patents
  - Wait to market until patent expires, or challenge validity of RLD patent(s)
- Automatic Substitution at Pharmacy (State Laws)
- Not eligible for patents or NDA exclusivities

- Reference Listed Drug (RLD)
- The FDA-approved drug that the ANDA Applicant seeks to duplicate
- ANDA relies on the known safety & effectiveness of this approved drug
- Basis of Submission
- Must establish bioequivalence to this drug
- Selected by the Applicant
- In the pdf Orange Book as "+"

- Reference Standard (RS)
- ANDA applicant uses samples of this drug to conduct the in vivo bioequivalence testing, if RLD is unavailable
  - Withdrawn, discontinued, old/no longer in market
- Selected by FDA
- Often RLD and RS are the same product
- If several approved generics, FDA will choose the market leader, based on commercial data
- In the pdf Orange Book as "!"
- Referencing Approved Drug Products in ANDA Submissions
  - Guidance for Industry (Draft 2017; Final 2020)

- Orange Book Approved Drug Products with Therapeutic Equivalence Evaluations
- 41st edition, 2021 (pdf and electronic)
   <a href="https://www.accessdata.fda.gov/scripts/cder/ob/index.cfm">https://www.accessdata.fda.gov/scripts/cder/ob/index.cfm</a>
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- Extensive list of NDA and ANDA drugs, discontinued, patent listings, exclusivity listings, equivalence ratings
- RLD and RS designations
- Numerous search functions, e.g., active ingredient, dosage form, patents
- Safety-only and pre-1938 drugs are not included

- Suitability Petitions
- Used to Request a Change from the RLD
- Allowed Changes are to Strength, Dosage Form, or Formulation
- FDA Must Approve Before ANDA Is Filed
- Advantage Niche Product, Unique
- Disadvantage Public document, can be referenced by competitors
- Effect of Pediatric Study Rule Limits the use of S.P. since most changes trigger the need for pediatric data

#### **Content & Organization of an ANDA**

- Must refer to an approved "reference listed drug" (RLD)
- Conditions of use must be identical
- Identical active ingredient
- Identical route of administration, dosage form & strength
- Bioequivalent (BE) to the listed drug (unless eligible for waiver)
- Labeling must be the same as the RLD (but for minor differences due to different manufacturer)

### **Content & Organization of an ANDA**

- Inactive Ingredients Need Not Be the Same as the RLD
  - Exceptions: Parenterals, Ophthalmics, Otics, Topicals
- Chemistry, Manufacturing and Controls info
- CTD / eCTD Modules
- June 2019 Guidance on Content and Format
- Refuse-to-Receive Standards

#### **NDA vs. ANDA Requirements**

NDA Requirements	ANDA Requirements
<ol> <li>Chemistry</li> <li>Manufacturing</li> <li>Controls</li> <li>Labeling</li> <li>Testing</li> <li>Animal Studies</li> <li>Clinical Studies</li> <li>Bioavailability</li> </ol>	<ol> <li>Chemistry</li> <li>Manufacturing</li> <li>Controls</li> <li>Labeling</li> <li>Testing</li> <li>Bioequivalence</li> </ol>

#### Sameness

- Active ingredient, Route of Administration, Dosage Form, Strength and Conditions of Use
- Pharmaceutical Equivalence
- E.g., both RLD NDA and ANDA describe Naproxen
   Oral Tablets Delayed-Release, 500 mg
- Not Pharmaceutical Alternative (naproxen and ibuprofen)

### Bioequivalence

- Clinical Comparison of Generic and RLD
- Testing Performed under patent "safe harbor"
  - 35 U.S.C. 271(e)(1) allows the use of patented inventions for "uses reasonably related to the development and submission of information under a Federal law which regulates the manufacture, use, or sale of drugs"
- No Significant Difference in the Rate and Extent to which the Active Moiety Becomes Available at the Site of Drug Ingredient Action

### Bioequivalence (continued)

- May be self-evident, or demonstrated through in vivo studies (in human subjects) or in vitro studies (conducted in a laboratory)
- Systemic Drugs usually blood-level studies
- Topical Drugs "scientifically valid" measurements, could be a Phase 3 clinical study
  - FDA web page: Bioequivalence Studies for Submission in ANDAs during the COVID-19 Pandemic
- Plan for process to obtain drug samples of RLD, especially if specialty or restricted distribution

# Therapeutic Equivalence

- Pharmaceutical Equivalence + Bioequivalence
- Generic is expected to have the same clinical effect and safety profile as the RLD
- Supports automatic substitution at pharmacy

# **Polling Question**

True or False:

An Abbreviated New Drug Application must always include an identification of the Reference Standard (RS) as the basis for submission.

# Office of Generic Drugs' Review Process

# Generic Drug User Fee Act I (2012 - 2017) Program Goals

#### Safety

 Ensure that industry participants who participate in the U.S. generic drug system are held to consistent high quality standards and are inspected biennially using a risk-based approach

#### Access

 Expedite the availability of low cost, high quality generic drugs by bringing greater predictability to the review times for ANDAs, amendments, and supplements

#### Transparency

 Require the identification of facilities involved in the manufacture of generic drugs and associated APIs

#### **GDUFA I (2012 - 2017)**

#### **Major Program Goals**

- Application metrics
- Backlog metrics
- CGMP Inspection metrics
- Efficiency enhancements
  - ANDA review efficiency enhancements
  - Drug Master File (DMF) review efficiency enhancements
  - Inspection Efficiency Enhancements
- Regulatory science initiatives

#### **GDUFA I: Fee Types**

- One-time backlog fee for ANDAs pending on Oct. 1, 2012
- Drug Master File fee
- ANDA and Prior Approval Supplement filing fee
- Annual Generic drug manufacturing facility fee and API manufacturing facility fee

# GDUFA II (FDA Reauthorization Act, 2017- 2022) Program Goals

- Submission review performance goals
  - Review and act on original ANDAs, ANDA amendments, standard PASs,
     PAS amendments in certain timeframes
- ANDA review program enhancements transparency and communication
- Pre-ANDA program and mid-review-cycle meetings for complex products
  - Enhancements to Inactive ingredient database, Regulatory science initiatives
- DMF review program enhancements
- Facilities/GMPs Enhanced communications regarding inspections and with foreign regulators
- Enhanced accountability and reporting

#### **GDUFA II**

#### Fee Types

- Generic Drug Applicant annual Program fee
  - Small (1-5 ANDAs), Medium (6-19), Large (20 and up)
  - **–** \$154,299 \$617,197 \$1,542,993

- Annual Facility fee
  - Domestic and Foreign API facility fee
  - Domestic and Foreign Finished Dosage Form facility fee
  - Domestic and Foreign Contract Manufacturing Organization facility fee
- **Drug Master File fees**
- ANDA filing fees
- Backlog fee (set in FY13 only)

#### **R&D Phase**

#### **Pre-ANDA Meetings**

#### Meeting types:

- Product development meetings
- Pre-submission meetings
- Mid-review-cycle meetings

#### Goals:

- Clarify regulatory expectations for prospective applicants early in product development
- Reduce the number of review cycles required to obtain approval
- Provide an opportunity for the applicant to discuss content and format of the ANDA to be submitted
- Give FDA time to prepare for unique review issues

#### **R&D Phase** (continued)

- Controlled Correspondence Process for submitting specific product development questions to OGD. Answers help companies develop ANDAs that have a strong ability to obtain approval.
- Product-Specific Guidances Describe FDA's current expectations for bioequivalence studies per RLD (e.g., number and type, fasting/fed, analyte to measure)
- Newest Guidance: Development of ANDAs During the COVID-19 Pandemic – Questions and Answers, Guidance for Industry (April 2021)

#### **R&D Phase (continued)**

- Inactive Ingredient Database (IID): Provides details on which inactive ingredients are present in FDA-approved drug dosage forms
- Levels per dosage form:
  - Maximum potency
  - Maximum daily exposure (MDE), also called maximum daily intake (MDI) for oral drug products
- Self-identification: Required reporting to OGD by API and FDF manufacturing facilities; Primary packagers & labelers; Sites identified in a generic drug submission that perform BE or bioavailability testing; Sites that test one or more attributes of the FDF or API for GMP requirements

#### **Expedited Programs: Priority ANDAs**

- Priority review = 8 months (vs. 10 months)
  - Must pre-submit facility information, 60 days before ANDA
- An original ANDA or ANDA amendment will be eligible for priority review if it meets one of the following factors:
  - Submissions for which there are not more than three (3) approved drug products
  - Applications containing a paragraph IV certification
  - Submissions for which final approval is dependent on the expiration of a patent or NDA exclusivity
  - Submissions related to drug shortages or public health emergencies
  - Submissions that are subject to special review programs or other legal requirements
  - Submissions related to certain government purchasing programs
  - Submissions for which a priority review is requested
  - Submissions for "sole source" drug products
- Priority review will be granted to an ANDA Supplement if:
  - The supplement relates to a drug shortage or public health emergency, or
  - FDA determines that a delay would impose extraordinary hardship on the applicant
- FDA only evaluates whether priority review may be granted if:
  - The applicant requests it at the time of submission, or
  - FDA determines the submission relates to a drug shortage or public health emergency

#### **Expedited Programs: Competitive Generics**

- FDA may designate a drug as a competitive generic therapy (CGT) after determining that there is inadequate generic competition for that drug.
- At the applicant's request, FDA may expedite the development and review of an ANDA for a CGT-designated drug.
- In granting such requests, FDA considers:
  - The complexity of developing an application for that drug
  - The potential public health impact of the product, including the severity of the condition treated and the size of the patient population
  - The impact on FDA resources
- Actions FDA may take to expedite development:
  - Product development meetings
  - Pre-submission meetings
  - Mid-review-cycle meetings
  - Cross-disciplinary review of CGT ANDA

#### Responses to OGD Adverse Decisions

- Refuse to Receive (RTR): In the first 60 days, FDA evaluates the ANDA to determine if it is "substantially complete" and can be received. Major deficiency or more than 9 minors.
  - Withdraw ANDA, Correct Deficiencies and Resubmit
  - If Information Request (IR), response due in 7 calendar days
- Complete Response Letter (CRL): Once review is complete,
   FDA letter describing deficiencies in an ANDA that must be addressed before the ANDA can be approved
  - Request a clarification meeting within 10 days
  - No response within 1 year = Request to Withdraw ANDA

#### **Responses to OGD Adverse Decisions**

- Request for Reconsideration: Applicant must try to resolve the issue through the RfR process. Explain the nature of the matter within 7 calendar days from the date of the regulatory action by FDA.
- Formal Dispute Resolution: Appeal escalation; based on the same information as was used to make the original decision; can include Advisory Committee.

# **Polling Question**

- Which of the following is NOT included in GDUFA II?
- A. Enhancements to the Inactive Ingredient Database
- B. Standard and Priority Review goal dates
- C. Pre-IND meetings
- D. Controlled Correspondence
- E. ANDA Backlog fees

## 505(b)(2) NDA - 21 USC § 355(b)(2)

- Used for chemical entity that has known therapeutic effects, but makes a change from the original approved drug
  - New dosage formDifferent strength
  - Expanded indication / subpopulation
- Can reference scientific data from published literature and known safety and efficacy of approved Listed Drugs (LD)
- Statute: NDA relies on data not conducted by or for the applicant, and for which it has no right of reference
- Data required will be based on unanswered questions raised by the product change (Animal Tox - Clinical Data)
- Viewed as a hybrid between a full NDA and an ANDA
- Meetings, Review Timelines and User Fees governed by PDUFA

#### 505(b)(2) New Drug Application

- Usually a shorter, less expensive R&D phase
- Pre-clinical data (not frequently)
- Clinical studies
  - Phase I (not likely)
  - Phase II (probably)
  - Phase III (possibly)
- Bioequivalence "Bridging" Study to Listed Drug
- Must file patent certification to Listed Drug's patents; subject to Hatch-Waxman rules (e.g., 30 month stay)
- Market Protection: Patents, Patent Extension, and Exclusivity for Clinical or Pediatric Studies, Less often for Orphan Drug or New Chemical Entity

# Patent Provisions Applicable to NDAs and ANDAs

#### **Innovator Applicant's Duty – Patent Listing**

- File Information With FDA On Any Patent That:
  - Claims The Drug in the NDA
  - Claims a Method For Using the Drug
  - Where a Claim of Patent Infringement Could Reasonably Be Asserted
- File Within 30 Days of NDA Approval or Patent Issuance
- Types of Patents: Drug Substance, Composition, Formulation, Product-by-Process, Method of Use Patents (on-label)
- But Not: Process, Metabolites, Intermediates, Packaging
- Delisting: Must Notify FDA within 14 days after invalidation by a court, USPTO, or the Patent Trial and Appeal Board of a listed patent, and request that such patent be withdrawn from O.B.

# **Generic Applicant's Duty ANDA Patent Certifications**

#### **No Orange Book Patent**

- Paragraph 1 Patent information not submitted to FDA
- Paragraph 2 Patent has expired
- No Relevant Patents Statement
   No Patents exist

#### **Yes Orange Book Patent**

- Paragraph 3 Will not market until patent expires
- Paragraph 4 Challenging the patent as invalid or not infringed
- Little viii Statement Patent not infringed because not seeking approval for that use; use will not be on label (Method of Use Carve-Out)

# PIV Challenges to Orange Book Patent Listings

- Notice of Paragraph IV Certification Sent to NDA Sponsor and Patent Holder within 20 days after FDA's ANDA Acknowledgement letter
- NDA Sponsor Has 45 Days to Sue, Starting Day After Notice is Received
- Suit Triggers 30-month Stay Against FDA's Approval of the ANDA (or until favorable court decision or settlement)
- Numerous detailed administrative requirements, 21 CFR 314.94 and 314.95
- One 30-month Stay per ANDA or 505(b)(2) NDA

# Orange Book Transparency Act of 2020

- Codified existing FDA-required NDA patent listing procedures in 21 CFR 314.53
- Requested FDA and GAO to report on the extent of device patents in the Orange Book, in 2 years
- Refers to controversy of listing device patents for drug-device combination products, e.g., autoinjector pens, transdermal patches, nasal spray actuators

# **Market Exclusivity**

For Innovator Products

#### **5-Year Exclusivity**

- Available To NDAs
- Awarded For A New Chemical Entity (NCE)
- Never Before Approved by FDA
- Controversy over Active Moiety vs. Active Ingredient
  - 505(u) subset for Enantiomers with Different Indication
  - Exceptions for Ingredient Mixtures, Two Actives
- Affect On ANDAs: May Not Be Filed With FDA Until Exclusivity Expires
- Exception For Paragraph IV ANDAs: May Be Filed With FDA After 4 Of The 5 Years Have Expired

### **3-Year Exclusivity**

- Available To NDAs And NDA Supplements
- Awarded For "New" Clinical Studies (not BioE studies), "Essential" To The Approval Of The NDA, And "Conducted Or Sponsored By" The Applicant
- Attaches To The New Or Changed Item (Dosage Form, Indication, Strength, Etc.)
- Affect On ANDAs
  - May Be Filed With FDA, And Reviewed, But Will Not Be Approved Until Exclusivity Expires
  - Results In A Tentative Approval Letter
  - May Be Approved With "Carved Out" Labeling

### Pediatric Exclusivity – 6 months

- Available To NDAs and NDA Supplements
- Awarded For Clinical Data In Children (Positive or Negative, On-label or Ex-label)
- Eligible Drugs Those that May Produce Health Benefits in Children (Interpreted Broadly)
- Adds on to the end of existing patent terms and exclusivity, but for All of NDA Holder's Drugs/Dosage Forms With That Same Active Moiety
- Affect on ANDAs: Yes file, TA, Yes carve-out, Interrupts and Delays 180-Day Exclusivity

#### **Orphan Drug Exclusivity – 7 Years**

- Available to NDAs and NDA Supplements
- Awarded to Drugs for Rare Diseases and Disorders
  - Fewer than 200,000 People in U.S. or No Expectation of Cost Recoupment
- Indication-Specific
- Affect On ANDAs:
  - May Be Filed With FDA, And Reviewed, But Will Not Be Approved Until Exclusivity Expires
  - Results In A Tentative Approval Letter
  - May Be Approved With "Carved Out" Labeling

# **Antibiotic (GAIN) Exclusivity**

- Generating Antibiotic Incentives Now
- Addresses the public health threat of antibacterial drug resistance
- For designations of Qualified Infectious Disease Products
- 5 years
- Added on to other existing exclusivities

# **Polling Question**

 Can a 505(b)(2) NDA receive 3-year exclusivity if it includes a Paragraph III patent certification?

Yes or No?

# **Market Exclusivity**

For Generic Products

#### **180-Day Exclusivity**

- Available To First ANDA(s) That Contain A Paragraph IV Patent Certification
- Awarded For Challenging A Patent (Regardless Of Success)
- Begins on First-to-File's First Commercial Marketing of the Generic
- Complex Forfeiture Rules
- Affect On Later-Filed ANDAs:
  - Affects Only Subsequently-Filed ANDAs with Paragraph IV Patent Certifications
  - May Be Filed With FDA, And Reviewed, But Will Not Be Approved Until Exclusivity Expires
  - Results In A Tentative Approval Letter
  - May Stop/Restart Due to Pediatric Exclusivity

# 180-Day Competitive Generic Therapy Exclusivity

- For the first-approved CGT ANDA(s), if there were no unexpired patents or exclusivities listed in the Orange Book for the relevant RLD at the time of ANDA submission
- Required to commercially market the generic within 75 calendar days after approval
- Where there is no patent-challenge exclusivity
- Triggered on the day of first commercial marketing
- Blocks later-filed ANDAs for 180 days, unless approved during 75-day launch window

# Patent Term Restoration/Extension (PTE) Extends NDA Patent Term

- Eligible If Patent is Unexpired and Never Before Extended, and 1<sup>st</sup> Commercial Marketing of Drug Product
- Scope of Extended Rights approved uses, other salts, but only once per NDA even if multiple patents
  - Choice of "which patent" Can lead to negotiations and disagreements between patent holder(s), NDA sponsor, and marketing partners
- Orange Book lists Extension as revised Patent Expiration Date, eventually
- Request for PTE goes from patent owner to PTO
- Procedures for FDA review to determine extension, based on request from PTO to FDA
- 35 U.S.C. 156, 21 CFR Part 60

# **Length of Extension is Formulaic and Complex Formula for Patent Term Restoration/Extension**

- 1. All NDA time given back
- 2. ½ IND time given back
- 3. 5 year maximum extension for regulatory review period (can be less)
- 4. Original patent plus extension cannot exceed 14 years of total restoration time

#### **Strategies Affecting Approval**

- Citizen Petition: RLD Sponsor (or anyone) May Challenge the Generic Drug's Eligibility for FDA Approval
  - Science, approval standards, policy or other
  - FDA may not delay the approval of a pending ANDA unless it makes a formal determination that a delay is "necessary to protect the public health"
- Post-filing Labeling Changes
  - FDA Authority to Approve Generic Drug Labeling when RLD Changes Labeling in 60 Days before Approval
- Life-cycle Management (product modifications)
- Patent Litigation Settlements agreeing to delay generic launch (pay-for-delay)
- 180-Day exclusivity can block during non-launch period

### Little (viii) Statement

- Application does not claim a method of use covered by the patent
- Results in "skinny" labeling / carve-out
- Unless omission would render the drug less safe or effective for the remaining conditions
  - Alterations to warnings, adverse event tables, medication guides, descriptions of clinical studies, have been permitted
  - Exclusivity is not deemed to protect critical risk information

#### **Authorized Generics**

- RLD Sponsor enters into a manufacturing and distribution agreement with generic company
- Generic company (or RLD subsidiary) sells a version of its NDA drug as a "generic" for formulary and pricing purposes
- An attempt by RLD Sponsor to capture a share of the generic market, or facilitate a patent lawsuit settlement

# Drugs subject to Risk Evaluation and Mitigation Strategies

- Voluntary or Required restricted distribution systems delay access to RLD product samples for BE studies
- Restrictive API supply agreements
- Patenting of REMS programs
- Protracted negotiations for Shared System REMS agreements
- CREATES Act (2020): Comparable REMS program is permissible; RLD failures to supply samples can be sued

#### **Questions?**

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