Non-Patent Exclusivity

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Five Types of Non-Patent Exclusivity

- New Chemical Entity ("NCE") Exclusivity 5 yrs
- New Clinical Study Exclusivity 3 yrs
- Orphan Drug Exclusivity 7 yrs
- Pediatric Exclusivity 6 mos
- Generic Drug Exclusivity 180 days

New Drug Applications

- "Full" New Drug Application 505(b)(1)
 - Includes results of human clinical trials sufficient to prove safety and efficacy
- 505(b)(2) Application
 - Relies, at least in part, on published information or FDA's past finding of safety and efficacy
 - Examples: new dosage form, strength, route of administration, dosing regimen, indication
- Abbreviated New Drug Application 505(j)
 - Same active ingredient, dosage form, strength, route
 - Need prove only bioequivalence



NCE Exclusivity

- Hatch-Waxman Act, 1984
- Granted: to drug products containing a New Chemical Entity
- Blocks: <u>submission</u> of 505(b)(2) or ANDA
- Length: five years (or four years if para. IV)
- Statutes: 21 USC 355(c)(3)(E)(ii) 505(b)(2)
 - 21 USC 355(j)(5)(F)(ii) ANDA
- Regs: 21 CFR 314.108(b)(2)



"New Chemical Entity"

Definitions in 21 CFR 314.108(b)

- New Chemical Entity: "a drug that contains no active moiety that has been approved by FDA in any other application submitted under section 505(b) of the act"
- Active Moiety: "the molecule or ion, excluding those appended portions of the molecule that cause the drug to be an ester, salt (including a salt with hydrogen or coordination bonds), or other noncovalent derivative (such as a complex, chelate, or clathrate) of the molecule, responsible for the physiological or pharmacological action of the drug substance"



NCE Exclusivity For Enantiomers?

- Federal Drug Administration Amendments Act, 2007 ("FDAAA")
- Under strict conditions, an enantiomer can qualify as a NCE:
 - The single enantiomer has not been previously approved except in the approved racemic drug
 - The NDA includes full new clinical investigations
 - The clinical studies were not used for the racemate
 - The enantiomer indication is not in the same therapeutic category as the racemate
- Three-year exclusivity available: e.g., Lexapro (escitalopram); Nexium (esomeprazole)



Extension of 30-Month Stay

- P. IV ANDA or 505(b)(2) can be filed at "NCE -1" date
- If NDA holder/patent owner sues within 45 days, approval of ANDA/505(b)(2) is stayed for 30 months
- If suit filed within the one-year period beginning four years after NDA approval, the 30-month stay is extended by amount of time such that 7.5 years will elapse from the date of NDA approval



New Clinical Study Exclusivity

- Hatch-Waxman Act, 1984
- Granted: for submission of results of new clinical studies
- Blocks: <u>approval</u> of 505(b)(2) or ANDA
- Length: three years
- Statutes: 21 USC 355(c)(3)(E)(iii, iv) 505(b)(2)
 21 USC 355(j)(5)(F)(iii, iv) ANDA
- Regs: 21 CFR 314.108(b)(4) and (5)



New Clinical Study Exclusivity

- Granted for submission of "reports of new clinical investigations (other than biovailability studies) essential to the approval of the application [or the supplemental application] and conducted or sponsored by the applicant"
- Examples: new or changed formulations; salts; indications; dosing regimens; patient populations; OTC switches; or other label changes
 - Opana ER (immediate release → extended release)
 - Caduet (atorvastatin/amlodipine combination)

New Clinical Study Exclusivity

- Requirements 21 CFR 314.108(a):
 - Cannot apply to a new active moiety itself
 - Studies may not be bioequivalency or bioavailability studies
 - Studies must be conducted or sponsored by applicant
 - Studies must be new
 - results not relied on by FDA to demonstrate effectiveness of a previously approved drug product for any indication
 - Studies must be "essential to approval"
 - No other available data could support approval



BMS v. Shalala (D.C. Cir. 1996)

- Capoten (captopril) originally indicated for hypertension
- Subsequently approved for (i) ventricular dysfunction and (ii) diabetic nephropathy
 - 3-year exclusivity granted on both new indications
- In general, generic drug label should be the same as the brand-name drug label
- However, under statute and regs, ANDA applicants can "carve out" certain indications from their labeling
- BMS sued FDA, arguing no ANDA can be approved as long as there is any three-year exclusivity
- Court held in favor of FDA



Orphan Drug Exclusivity

- Orphan Drug Act, 1983
- Granted: to drugs intended for treatment of a "rare disease or condition"
 - Affects < 200,000 people in the U.S., or
 - No reasonable expectation of recouping dev. costs
- Blocks: approval of 505(b)(1), (b)(2), or ANDA directed to the same drug, for same disease
- Length: seven years
- Additional rewards: tax credits; grants; fees waived
- Statute: 21 USC 360aa-dd
- Regs: 21 CFR 316



Orphan Drug Exclusivity – Process

- Apply for orphan drug status
 - Upon designation, eligible for tax credits, grants, etc.
 - Added to list of orphan drug designations
- Submit marketing application (NDA)
 - Reviewed like other NDAs
 - Upon approval, added to Orange Book



"Celebrating the Success of the Orphan Drug Act"

- FDA Office of Orphan Products Development
- 300 treatments approved in past 25 years (only ten had been approved prior to the Act)
- FDA states there are 7,000 rare diseases or conditions
- 1700 drugs have been granted orphan drug status



Internet Break!



Pediatric Exclusivity

- Food and Drug Administration Modernization Act, 1997 ("FDAMA")
- Granted: to applicants who successfully complete FDA-requested clinical trials of a drug in a pediatric population
- Blocks: approval of 505(b)(2) or ANDA
- Length: six months beyond any existing marketing or patent exclusivity
- Also: gov't funding of ped studies if no exclusivity
- Statute: 21 USC 355A
- FDA Guidance: www.fda.gov/cder/guidance/2891fnl.htm



Pediatric Exclusivity – Process

- FDA makes written request for pediatric studies, identifying a timeframe for completion
 - Applicant may propose that FDA request the studies
- NDA holder agrees to request, completes studies within timeframe, and submits acceptable reports
- "Acceptable reports":
 - If FDA and sponsor agree on study protocol, completion in accordance with agreement sufficient
 - If no agreement, requirement met if reports fairly respond to written request, are conducted by accepted scientific principles, reported properly, etc.
- Note: studies need not be successful



Generic Drug Exclusivity

- Hatch-Waxman Act, 1984
- Granted: to first ANDA applicant who submits a "substantially complete" ANDA containing a paragraph IV certification
 - Substantially complete = sufficient to permit review
- Blocks: approval of subsequently-filed <u>ANDA</u> containing a paragraph IV certification
- Length: 180 days, from commercial marketing
- Statute: 21 USC 355(j)(5)(B)(iv)
- FDA Guidance: www.fda.gov/cder/guidance/5710fnl.pdf



180-Day Exclusivity Forfeiture

- Medicare Modernization Act, 2003 ("MMA")
- Six ways to forfeit:
 - 1. failure to market
 - 2. withdrawal of application
 - 3. amendment of certification
 - 4. failure to obtain tentative approval within 30 mos.
 - improper agreement with another applicant, the listed drug application holder, or a patent owner
 - 6. expiration of all patents
- Decided case by case:
 - FDA considers forfeiture only when approval of a subsequent ANDA may be blocked by a first appl.



Norvasc Case: Pediatric/180-Day Exclusivity Interaction

- Pfizer: U.S. Patent No. 4,879,303
 - Claims amlodipine besylate
 - Expired 3/25/07 (pediatric excl. to 9/25/07)
- ANDA Filers:
 - Mylan (first filer/180-day excl. holder)
 - Pfizer did not sue w/in 45 days → no 30 mo. stay
 - Oct. 2005: FDA grants final approval
 - W.D. Pa. 3/16/07: '303 valid and enforceable
 - Apotex
 - N.D. III. 1/29/06: '303 valid and enforceable
 - Synthon
 - M.D.N.C. 8/31/06: '303 valid and enforceable



Norvasc Case: Flurry of Activity

- March 22: Fed. Cir. invalidates '303 patent
- March 23: Mylan launches generic, triggering 180-day exclusivity period
- March 23: Pfizer launches authorized generic
- March 25: '303 patent expires
- March 26: Mylan files suit against FDA in D.C. district court, seeking to enjoin FDA from granting final approval to any other Norvasc[®] ANDAs
- March 26: FDA promises to seek views of interested parties; agrees to hold off until April 11
- March 26: District court enjoins FDA until April 13
- April 5: Pfizer files petition for rehearing or rehearing en banc of March 22 Fed. Cir. decision



Norvasc Case: FDA Decision, Apr. 18

(http://www.fda.gov/ohrms/dockets/dockets/07n0123/07n-0123-let0002-vol1.pdf)

- 1. All unapproved ANDAs are currently blocked by Pfizer's pediatric exclusivity
- 2. If and when the mandate effectuating the Fed. Cir. decision issues, Pfizer's pediatric exclusivity will not block final approval of Apotex's ANDA
- 3. FDA cannot determine on the current record whether other ANDAs will continue to be blocked by pediatric exclusivity at that time
- 4. Mylan's 180-day exclusivity terminated when the '303 patent expired (March 25)



Questions?

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