THE UNITED STATES PATENT AND TRADEMARK OFFICE

BEFORE THE PATENT TRIAL AND APPEAL BOARD

INNOPHARMA LICENSING, INC., INNOPHARMA LICENSING LLC, INNOPHARMA INC., INNOPHARMA LLC, MYLAN PHARMACEUTICALS INC., and MYLAN INC.

Petitioners

v.

SENJU PHARMACEUTICAL CO., LTD., BAUSCH & LOMB, INCORPORATED, and BAUSCH & LOMB PHARMA HOLDINGS CORP.

Patent Owners

Case IPR2015-00902 Patent 8,669,290

DECLARATION OF JOHN C. JAROSZ

SENJU EXHIBIT 2130 INNOPHARMA v SENJU IPR2015-00902

PAGE 1 OF 123

TABLE OF CONTENTS

I.	INTRODUCTION1						
	A.	Assignment					
	В.	Qualifications					
	C.	Compensation					
	D.	Evidence Considered					
	E.	Summary of Opinions					
II.	BAG	7					
	А.	Parties to the Inter Partes Review					
		1.	Senju7				
		2.	Bausch & Lomb8				
		3.	InnoPharma				
		4.	Mylan10				
	В.	Cataract Treatments					
	C.	Pos	Post-Surgery Options				
		1.	Nor	-Bromfenac NSAIDs			
			a.	Diclofenac Sodium			
			b.	Ketorolac Tromethamine	14		
			c.	Nepafenac	14		
		2.	Cor	ticosteroids			
	D.	Prolensa®17					
		1.	Earlier Bromfenac Products17				
		2.	IST	A's Acquisition by Bausch & Lomb			
		3.	Dev	elopment and Launch of Prolensa®			
	E.	Patented Technology					
III.	FRAMEWORK OF ANALYSIS						
IV.	CON	24					
	A.	Marketplace Success2					
		1.	Absolute Performance of Prolensa®24				
		2.	2. Relative Performance of Prolensa®				
			a.	Initially			
			b.	Over Time			

		с.	Third-Party Perceptions	30
		d.	Licensing Activity	32
B.	Cau	sal Ne	xus	34
	1.	Ben	efits of the Patented Inventions	34
		a.	Clinical Importance of the Benefits	36
		b.	Marketing Importance of the Benefits	42
			i. Healthcare Professionals	42
			ii. Other Audiences	45
		с.	Third-Party Perceptions	46
	2.	Pro	motional Activities	48
		a.	Informative and Persuasive Advertising	48
		b.	Pharmaceutical Demand Factors	50
			i. Impact of Product Characteristics	50
			ii. Impact of Product Quality	
		c.	Impact of Promotional Efforts	
		d.	Impact of Price	56
	3.	Pro	notional Spending	
V. CO	NCLU			

I, John C. Jarosz, do hereby declare, under penalty of perjury, as follows.

I. INTRODUCTION

 I am over the age of eighteen (18) and otherwise competent to make this declaration.

A. Assignment

2.

3.

- I have been retained as an expert on behalf of Bausch & Lomb Incorporated, Bausch & Lomb Pharma Holdings Corp. (collectively, "Bausch & Lomb") and Senju Pharmaceutical Co. Ltd. ("Senju") (collectively, with Bausch & Lomb, "Patent Owners") in connection with the above captioned *inter partes* review ("IPR") proceeding before the United States Patent and Trademark Office Patent Trial and Appeal Board ("PTAB").
- I understand that the PTAB has granted the petition of InnoPharma Licensing, Inc., InnoPharma Licensing LLC, InnoPharma Inc., InnoPharma LLC (collectively, "InnoPharma"), Mylan Pharmaceuticals Inc., and Mylan Inc. (collectively, "Mylan") (collectively, with InnoPharma, "Petitioners") to institute an IPR regarding claims 1-30 of U.S. Patent No. 8,669,290 (the "290 patent") on obviousness grounds. That IPR was assigned Case IPR2015-00902.
- 4.

I understand that the PTAB has granted the petition of the Petitioners

1

PAGE 4 OF 123

to institute a separate IPR regarding claims 1-22 of U.S. Patent No. 8,129,431 (the "'431 patent") on obviousness grounds. That IPR was assigned Case IPR2015-00903.

5. I understand that Senju is the assignee of the '290 patent and that Shirou Sawa and Shuhei Fujita are the named inventors of the patent.

- 6. I understand that the '290 patent describes and claims compositions of the active ingredient bromfenac sodium ("bromfenac") and the surfactant tyloxapol.¹ I further understand that Prolensa® embodies the compositions disclosed in the '290 patent.
- 7. I have been asked by Counsel for Patent Owners to assess whether Prolensa® has been a marketplace success, and whether such success is attributable to the inventions claimed in the '290 patent.

B. Qualifications

8. I am a Managing Principal of Analysis Group, Inc. ("Analysis Group") and Director of the firm's Washington, DC office. Analysis Group is an economic, financial, and strategy consulting firm with offices in Beijing, China; Boston, MA; Chicago, IL; Dallas, TX; Denver, CO; Los Angeles, CA; Menlo Park, CA; Montreal, Quebec; New York, NY; San

2

PAGE 5 OF 123

¹ I understand that a surfactant is a substance that, when added to a liquid, reduces the surface tension of that liquid.

Francisco, CA; and Washington, DC. We provide research and analysis in a variety of business, litigation, and regulatory settings, and have particular expertise in intellectual property ("IP") matters, having been engaged in numerous matters involving patents, trademarks, copyrights, trade secrets, and unfair competition.

9. I am an economist whose specialty is IP valuation, monetary relief assessment, and the economics of commercial success. I have been involved in more than 350 such engagements spanning a broad range of industries and technologies, including a variety of covering pharmaceutical products. I received a J.D. from the University of Wisconsin and an M.A. in Economics from Washington University in St. Louis, where I completed most of the requirements for a Ph.D. in Economics. I also hold a B.A. in Economics and Organizational Communication from Creighton University in Omaha. I am a member of several professional associations, including the Licensing Executives Society. I have been a speaker and instructor many times on a variety of financial, economic, and valuation topics, most having to do with IP protection.

10.

A copy of my curriculum vitae is provided as Appendix 1. It includes a more detailed description of my educational background and professional experience.

PAGE 6 OF 123

C. Compensation

11.

My firm has billed the Patent Owners on a time-and-materials basis for my work and that of my colleagues. My hourly billing rate is \$665. I also have directed the efforts of other staff members of Analysis Group, whose hourly billing rates range from \$265 to \$425. My compensation is not, in any way, dependent on the outcome of this proceeding or on the substance of my opinion.

D. Evidence Considered

12. In undertaking my study and arriving at my conclusions and opinions, I have relied upon the materials cited here, and considered my own knowledge and experience, as well as additional information from a variety of sources that an expert economist would routinely consider in performing this undertaking. I specifically relied upon the materials cited and, although at times I refer to only selected portions of a cited reference, it should be understood that I have considered and relied upon all relevant aspects of such cited reference.

13. My analysis and opinions in this case are based on my knowledge, education, and research. In connection with the opinions and conclusions contained in this declaration, I also considered revenue, prescription, and promotional expenditure data provided by IMS Health ("IMS"). IMS data

PAGE 7 OF 123

are routinely relied upon by pharmaceutical industry professionals and researchers.

- 14. Appendix 2 through Appendix 13 provide a summary of the voluminous IMS data relating to Prolensa® that I considered. I and others working under my direction and supervision prepared these appendices.
 - E. Summary of Opinions
- 15. Based upon my review and analysis of the evidence received to date, it is my opinion that Prolensa® has achieved substantial marketplace success in the United States. It is also my opinion that there is a nexus between the marketplace success of Prolensa® and the claims of the '290 patent. In short, the claims of the '290 patent at issue here have been a commercial success.
- 16. A number of facts demonstrate that Prolensa® has been a marketplace success. Prolensa®'s revenues and prescriptions grew substantially after its commercial launch in April 2013. In its first ten quarters of commercial availability, Prolensa® has been prescribed approximately 1.4 million times in the U.S., generating \$246.9 million in revenue. (Appendix 13.) Prolensa® achieved this success despite being introduced into a marketplace in which at least six branded drugs and three generic drugs had already received U.S. Food and Drug Administration ("FDA") approval to treat similar indications

as Prolensa®. (See, e.g., Appendix 2.) Since its introduction, Prolensa® has achieved the second highest share of revenues and prescriptions among branded drugs with similar indications as Prolensa®. (Appendix 3; Appendix 6.)

17.

A number of facts demonstrate that there is a causal nexus between the success of Prolensa® and the claimed features of the '290 patent. The patent describes and claims compositions of the active ingredient bromfenac and the surfactant tyloxapol. Specifically, claims of the '290 patent disclose stable aqueous liquid compositions of the active ingredient bromfenac and the surfactant tyloxapol, which is the technology embodied in the drug Prolensa®. (Ex. 2082, at ¶143.) I understand that these compositions have a lower, more natural pH level with improved ocular penetration relative to other bromfenac formulations, allowing Prolensa® to deliver the same clinical efficacy, but using a lower concentration of the active ingredient bromfenac and a lower concentration of surfactant relative to other bromfenac formulations. The reduced concentrations of active ingredient and surfactant, as well as the lower pH, result in an improved side effect profile relative to other nonsteroidal anti-inflammatory drug ("NSAID") formulations, with no stinging or burning. The lower pH and reduced side effects make Prolensa® more comfortable to use relative to other NSAID

formulations and enhance patient compliance.

As explained by Dr. Trattler, the development of Prolensa® was "highly significant to the field of ophthalmology and cataract surgery." (Ex. 2116, at ¶52.) The claimed features of the '290 patent have been a critical driver of the success of Prolensa®. That is, Prolensa® is consistently marketed based on the benefits made possible by the '290 patent.

18. Bausch & Lomb's promotional expenditures on Prolensa® are consistent with those for competing drugs with similar indications that became commercially available around the same time as Prolensa®. (Appendix 12.) Specifically, Bausch & Lomb's promotional expenditures as a percent of sales are consistent with those for Ilevro®, which was commercially released six months prior to Prolensa®. (Appendix 12.) And the success of Prolensa® is not attributable to any pricing advantages, because it has none.

II. BACKGROUND

- A. Parties to the Inter Partes Review
 - 1. Senju
- Senju is a pharmaceutical company that operates out of Osaka, Japan.
 (Ex. 2194; Ex. 2195.) Senju manufactures a number of different prescription

PAGE 10 OF 123

and over-the-counter drugs, specializing in the development of eye care products and ear, nose, and throat treatments. (Ex. 2194; Ex. 2196.) Senju is the original assignce of the '290 patent. (Ex. 2002.)

2. Bausch & Lomb

- 20. Bausch & Lomb Incorporated is a manufacturer of eye care products headquartered in Rochester, New York. (Ex. 2186.) Originally incorporated as Bausch & Lomb Optical Company, the company changed its name to Bausch & Lomb Incorporated in 1960. (Ex. 2186.) Bausch & Lomb Incorporated is a subsidiary of Bausch & Lomb Holdings Incorporated ("Bausch & Lomb Holdings"). (Ex. 2186.)
- 21. I understand that Bausch & Lomb Pharma Holdings Corp. is the licensee of the '290 patent from Senju and is a wholly-owned subsidiary of Bausch & Lomb Incorporated.
- 22. In 2007, Bausch & Lomb Holdings was acquired by the private equity firm Warburg Pincus PLC ("Warburg") for \$4.5 billion, including \$3.67 billion in cash and the assumption of \$830 million in debt. (Ex. 2212.) As a result of this acquisition, Bausch & Lomb Holdings stock was delisted from the New York Stock Exchange on October 26, 2007. (Ex. 2212.)
- 23. On June 6, 2012, Bausch & Lomb Holdings acquired ISTA Pharmaceutical, Inc. ("ISTA"), a manufacturer of eye drugs, in a \$465.5

PAGE 11 OF 123

million all-cash transaction.² (Ex. 2237, at 52. *See also*, Ex. 2208; Ex. 2210.) As a result of the acquisition, Bausch & Lomb Holdings gained ownership of four prescription eye care products, including Bromday® (a once-daily bromfenac formulation that was first launched in November 2010), as well as several eye care products in various stages of development, including Prolensa®. (Ex. 2185, at 5-6; Ex. 2208; Ex. 2210.) Also on June 6, 2012, Bausch & Lomb Incorporated submitted a New Drug Application ("NDA") to the FDA seeking approval for Prolensa®. (Ex. 2152.)

24.

On August 5, 2013, Warburg sold Bausch & Lomb Holdings to Valeant Pharmaceuticals International, Inc. ("Valeant") for approximately \$8.7 billion, including \$4.2 billion to repay Bausch & Lomb's existing debt. (Ex. 2205; Ex. 2236, at 33.) Following the acquisition, Bausch & Lomb Holdings retained its name and became a division of Valeant, and Valeant's existing ophthalmology business was integrated into Bausch & Lomb Holdings. (Ex. 2184.)

3. InnoPharma

25. InnoPharma, Inc. is a pharmaceutical company based in Piscataway, New Jersey. (Ex. 2159; Ex. 2216.) Founded in 2005, InnoPharma Inc. focuses on developing generic and specialty pharmaceutical products in

PAGE 12 OF 123

² Purchase price is net of cash acquired.

injectable and ophthalmic dosage forms. (Ex. 2159; Ex. 2216.) On September 25, 2014, InnoPharma, Inc. was acquired by Pfizer Inc. for \$225 million in cash and up to \$135 million in contingent milestone payments. (Ex. 2215; Ex. 2216.)

26.

I understand that InnoPharma Licensing, Inc. operates as a patent owner and lessor for InnoPharma, Inc. I understand that InnoPharma Licensing, Inc. submitted Abbreviated New Drug Application ("ANDA") No. 206326 seeking approval to sell a generic bromfenac ophthalmic solution, intended to be a generic version of Prolensa®. (Ex. 2010, at 7-8.)

27. I understand that InnoPharma Licensing, LLC and InnoPharma, LLC are limited liability companies existing under the laws of New Jersey and have the same principal place of business as InnoPharma, Inc. I understand that these two companies are wholly-owned subsidiaries of InnoPharma, Inc. and are involved in seeking FDA approval to sell InnoPharma Licensing, Inc.'s generic bromfenac ophthalmic solution.

4. Mylan

28. Mylan Inc. is a global pharmaceutical company that develops, licenses, manufactures, markets, and distributes generic, branded generic, and specialty pharmaceuticals. (Ex. 2206, at 3.) Mylan Inc.'s product portfolio includes approximately 1,400 products marketed to customers in

more than 140 countries and territories. (Ex. 2206, at 3-4.)

- 29. On February 27, 2015, Mylan Inc. completed a transaction to acquire Abbott's non-U.S. developed market specialty and branded generics business for \$6.31 billion. (Ex. 2206, at 53.) As part of this transaction, Mylan Inc. was reorganized to become a wholly-owned indirect subsidiary of the newly formed Mylan N.V. (Ex. 2206, at 53.)
- 30. Prior to the acquisition, Mylan Inc.'s principal executive offices were located in Canonsburg, Pennsylvania. (Ex. 2206, at 4.) Mylan N.V. is headquartered in Amsterdam, the Netherlands, and has principal executive offices in Potters Bar, United Kingdom and global centers for excellence in multiple locations, including Canonsburg, Pennsylvania. (Ex. 2197; Ex. 2206, at 53.)
- 31. Mylan Pharmaceuticals, Inc. is a wholly-owned subsidiary of Mylan Inc. and Mylan N.V. based in Morgantown, West Virginia. (Ex. 2187; Ex. 2206, at Exhibit 21.1.) I understand that Mylan Pharmaceuticals, Inc. is involved in Mylan Inc.'s efforts to develop and seek FDA approval for generic pharmaceutical products.

B. Cataract Treatments

- 32.
- A cataract is a congenital or degenerative clouding of the lens of the eye that affects vision. (Ex. 2067, at 606.) Early symptoms include loss of

PAGE 14 OF 123

contrast, glare, needing more light to see well, and problems distinguishing dark blue and black. (Ex. 2067, at 606.) Cataracts are the leading cause of blindness worldwide, and affect more than 20 million Americans over the age of 40. (Ex. 2052, at 447.)

33.

Cataracts develop slowly over time, and occur as a result of aging or other risk factors such as trauma, smoking and alcohol use, under-nutrition, exposure to x-rays, or other factors. (Ex. 2067, at 606.) If external treatments such as corrective eyeglasses or long-term pupillary dilation do not sufficiently improve eyesight, the next option is surgery. (Ex. 2067, at 607.) Cataract surgery is one of the most commonly performed operations in the world. (Ex. 2052, at 447.) During cataract surgery, the clouded lens is removed from the eye and typically replaced with a plastic or silicone intraocular lens. (Ex. 2067, at 606-07.)

C. Post-Surgery Options

34.

A wide range of medications are approved for use in treating inflammation (and pain) following cataract surgery. The two most common types are NSAIDs and corticosteroids. (*See, e.g.*, Ex. 2153, at 5; Ex. 2155.) NSAIDs and corticosteroids treat inflammation by different mechanisms. (Ex. 2116, at ¶23.) They act on different enzymes that cause post-surgical inflammation and, thus, mediate post-surgical inflammation in different ways. (Ex. 2116, at ¶23.) Moreover, NSAIDs and corticosteroids exhibit different side effect profiles. (Ex. 2116, at ¶23.)

35. In addition to the NSAID bromfenac (the active ingredient in Prolensa®), the FDA has approved three major topical ophthalmic NSAIDs for use in the treatment of post-cataract surgery inflammation and, in some cases, pain:³ 1) diclofenac sodium; 2) ketorolac tromethamine; and 3) nepafenac. (*See, e.g.*, Ex. 2153, at 5; Ex. 2155.)

1. Non-Bromfenac NSAIDs

a. Diclofenac Sodium

Diclofenac sodium is sold under the brand name Voltaren® as a 0.1 percent concentration ophthalmic solution and a 1 percent topical gel. (Ex. 2162; Ex. 2166.) Generic versions of diclofenac sodium are available in solution and topical gel formulations. (Ex. 2170; Ex. 2171.)

37. Voltaren® solution first received FDA approval in March 1991. (Ex. 2162.) Diclofenac sodium ophthalmic solution is indicated for the treatment

PAGE 16 OF 123

36.

³ The IMS data for USC 61420 (ophthalmic NSAIDs) includes a fourth additional NSAID, flurbiprofen sodium, and its branded form Ocufen®. However, according to Dr. Trattler, Ocufen® has never been approved by the FDA for the treatment of inflammation or pain following cataract surgery. (Ex. 2116, at ¶25.) To be conservative, the appendices to this declaration show totals and relative shares that include Ocufen®/generic flurbiprofen sodium and that exclude Ocufen®/generic flurbiprofen sodium.

of inflammation following cataract surgery, and is administered four times per day through an eye drop. (Ex. 2057.)

b. Ketorolac Tromethamine

38. Ketorolac tromethamine is sold in 0.4 percent, 0.45 percent, and 0.5 percent ophthalmic solution formulations under the brand names Acular LS®, Acuvail®, and Acular®, respectively.⁴ (Ex. 2161; Ex. 2163; Ex. 2167.) Generic versions of ketorolac tromethamine are available in solution formulations with varying concentrations. (Ex. 2168; Ex. 2169.)

39. Acular® first received FDA approval in November 1992. (Ex. 2161.) Acular LS® and Acuvail® received FDA approval in May 2003 and July 2009, respectively. (Ex. 2163; Ex. 2167.) Acular® and Acular LS® are administered four times per day, while Acuvail® is administered twice per day. (Ex. 2155, at 18; Ex. 2193.) Ketorolac tromethamine is indicated for the treatment of inflammation and pain following cataract surgery, and is administered through an eye drop. (Ex. 2060; Ex. 2183; Ex. 2240.)

c. Nepafenac

40. Nepafenac is sold as a 0.1 percent concentration ophthalmic

PAGE 17 OF 123

⁴ The IMS data for USC 61420 (ophthalmic NSAIDs) includes a fourth form of Acular®, known as Acular PF®. According to Dr. Trattler, Acular PF® was not indicated for the treatment of inflammation or pain following cataract surgery. (Ex. 2116, at ¶29.) To be conservative, the appendices to this declaration show totals and relative shares that include Acular PF® and that exclude Acular PF®.

suspension under the brand name Nevanac® and as a 0.3 percent concentration ophthalmic suspension under the brand name Ilevro®. (Ex. 2165; Ex. 2178.)

41. Nevanac® and Ilevro® first received FDA approval in August 2005 and October 2012, respectively. (Ex. 2165; Ex. 2178.) Nevanac® is administered three times per day, while Ilevro® is administered once per day. (Ex. 2155, at 18; Ex. 2193.) Nepafenac is indicated for the treatment of inflammation and pain following cataract surgery and is administered through an eye drop. (Ex. 2241.)

2. Corticosteroids

42. Various corticosteroids have been approved for the treatment of postoperative inflammation and, in some cases, pain. These treatments include loteprednol etabonate 0.5 percent ophthalmic solution, sold under the brand name Lotemax®; difluprednate 0.05 percent ophthalmic solution, sold under the brand name Durezol®; and rimexolone 1 percent ophthalmic suspension, sold under the brand name Vexol®. (Ex. 2153, at 5; Ex. 2155.)

43. Although NSAIDs and corticosteroids can both be used to treat postoperative ophthalmic inflammation and pain, they represent distinct drug classes. (Ex. 2155.) According to Dr. Trattler, NSAIDs and corticosteroids act on different enzymes that cause post-surgical inflammation and, thus,

15

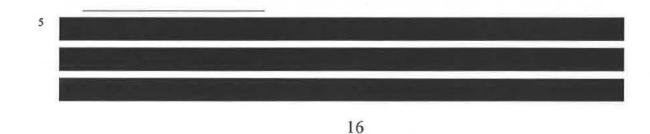
PAGE 18 OF 123

mediate the major inflammatory response following surgical trauma in different ways. (Ex. 2116, at ¶23.)

An October 2014 review, done by Dr. Line Kessel *et al.*, of existing research comparing the effectiveness of NSAIDs and corticosteroids in treating inflammation following cataract surgery found that NSAIDs are more effective in controlling inflammation and recommended the use of NSAIDs over corticosteroids to prevent inflammation. (Ex. 2202, at 1922.) Additionally, NSAIDs and corticosteroids have different side effect profiles when used to treat ocular inflammation. (Ex. 2116, at ¶23; Ex. 2119.) The superior performance and different side effect profile of NSAIDs relative to corticosteroids are also consistent with Bausch & Lomb's Prolensa® marketing and promotional materials, which focus almost exclusively on NSAIDs with only passing mentions of corticosteroids. (*See, e.g.*, _____;

Ex. 2221;

45. The relevant competitive marketplace for Prolensa® includes ophthalmic NSAIDs that are indicated for the treatment of inflammation or inflammation and pain following cataract surgery.⁵ It does not include



PAGE 19 OF 123

corticosteroids.

D. Prolensa®

46. I understand that Prolensa® embodies the relevant claims of the '290 patent. (Ex. 2082, at ¶143.) Approved by the FDA on April 5, 2013, Prolensa® is a once-daily, sterile, topical, NSAID indicated for the treatment of postoperative inflammation and reduction of ocular pain in patients who have undergone cataract surgery. (Ex. 2013; Ex. 2176.) Prolensa® contains a 0.07 percent concentration of the active NSAID bromfenac. (Ex. 2013.) Prolensa® is formulated using tyloxapol as a surfactant. (Ex. 2013.) Prolensa® was first commercially available in April 2013. (Ex. 2211.) Prolensa® is administered through an eye drop. (Ex. 2013.)

1. Earlier Bromfenac Products

47.

However, the IMS data for USC 61420 (ophthalmic NSAIDs) also includes Voltaren® and generic diclofenac sodium, which are also indicated for the treatment of inflammation following cataract surgery. (Ex. 2057.) I have included Voltaren® and generic diclofenac sodium in my analysis. FDA approval for Xibrom®, a twice-daily topical NSAID for the treatment of ocular inflammation following cataract surgery. (Ex. 2164; Ex. 2213; Ex. 2223.) Xibrom® contains a 0.09 percent concentration of the active NSAID bromfenac, and uses polysorbate 80 as a surfactant. (Ex. 2164; Ex. 2190; Ex. 2213.) Xibrom® was first commercially available in the second quarter of 2005. (Ex. 2213; *see also*, Appendix 2; Appendix 5.) In January 2006, the FDA expanded the approved Xibrom® indications to include the treatment of pain following cataract surgery. (Ex. 2189; Ex. 2223.)

- 48. On October 16, 2010, ISTA received FDA approval for Bromday®, a once-daily topical NSAID for the treatment of ocular inflammation and pain following cataract surgery. (Ex. 2164; Ex. 2188; Ex. 2223.) Like Xibrom®, Bromday® contains a 0.09 percent concentration of the active NSAID bromfenac, and uses polysorbate 80 as a surfactant; however Bromday® is dosed once a day compared to twice daily for Xibrom®. (Ex. 2027; Ex. 2164; Ex. 2188.) Bromday® was first launched commercially in November 2010. (Ex. 2185.)
- 49. The first generic version of Xibrom® was launched in May 2011 by Mylan under a development and supply agreement with Coastal Pharmaceuticals. (Ex. 2214; Ex. 2242.) Subsequently, several additional generic pharmaceutical companies, including Paddock LLC, Luitpold,

Apotex Inc., and Hi-Tech Pharmacal, launched generic bromfenac 0.09 percent ophthalmic solutions, including generic versions of Bromday. (Ex. 2172; Ex. 2173; Ex. 2174; Ex. 2175; Ex. 2177; Ex. 2238; Ex. 2239.)

2. ISTA's Acquisition by Bausch & Lomb

50.

Bausch & Lomb (which, at the time, was owned by Warburg) paid \$465.5 million to acquire ISTA in June 2012.⁶ (Ex. 2208; Ex. 2210; Ex. 2237, at 52.) At the time of the acquisition, ISTA had Prolensa® in its product pipeline. (Ex. 2210.) Ten months after Bausch & Lomb's acquisition of ISTA, in preparation for the sale of Bausch & Lomb, Warburg filed an S-1 statement with the U.S. Securities and Exchange Commission ("SEC") in which it identified the fair value of Bromday® and Prolensa® at \$297.9 million, or approximately 64 percent of the \$465.5 million acquisition price for ISTA.⁷ (Ex. 2237, at 53.)

3. Development and Launch of Prolensa®

51. On June 6, 2012, the same day that Bausch & Lomb's acquisition of ISTA was completed, Bausch & Lomb submitted NDA No. 203168 to the FDA seeking approval for Prolensa®. (Ex. 2152.) On April 5, 2013, the FDA approved Prolensa® for the treatment of postoperative inflammation

PAGE 22 OF 123

⁶ Purchase price is net of cash acquired.

⁷ \$297.9 million / \$465.5 million = 64.0 percent.

and reduction of ocular pain in patients who have undergone cataract surgery. (Ex. 2013; Ex. 2176.) Like Bromday®, Prolensa® is a once-daily topical NSAID. (Ex. 2013; Ex. 2027.) However Prolensa® contains a lower concentration of bromfenac than Bromday® (0.07 percent vs. 0.09 percent), and uses tyloxapol rather than polysorbate 80 as the surfactant. (Ex. 2013; Ex. 2027.)

E. Patented Technology

The '290 patent is entitled "Aqueous Liquid Preparation Containing 2-Amino-3-(4-Bromobenzoyl)Phenylacetic Acid" and the Abstract of the patent provides,

> An aqueous liquid preparation of the present invention containing 2-amino-3-(4-bromobenzoyl)phenylacetic acid or its pharmacologically acceptable salt or a hydrate thereof, an alkyl aryl polyether alcohol type polymer such as tyloxapol, or a polyethylene glycol fatty acid ester such as polyethylene glycol monostearate is stable. Since even in the case where a preservative is incorporated into said aqueous liquid preparation, the preservative exhibits a sufficient preservative effect for a long time, said aqueous liquid preparation in the form of an eye drop is useful for the treatment of blepharitis, conjunctivitis, scleritis, and postoperative inflammation. Also, the aqueous liquid preparation of the present invention in the form of a nasal drop is useful for the treatment of allergic rhinitis and inflammatory rhinitis (e.g. chronic rhinitis, hypertrophic rhinitis, nasal polyp, etc.). (Ex. 2002, at 1.)

53. The '290 patent was filed on November 28, 2012 and issued to Senju

on March 11, 2014. (Ex. 2002.)

PAGE 23 OF 123

52.

54. I understand that claims of the '290 patent are directed to stable aqueous liquid preparations of 2-Amino-3-(4-bromobenzoyl)phenylacetic acid (also known as bromfenac) and the surfactant tyloxapol, which is the technology embodied in the drug Prolensa®. (Ex. 2002, at 3; Ex. 2082, at ¶143.)

55.

I understand that Petitioners contend that U.S Patent Nos. 4,910,225 ("the '225 patent") and 6,107,343 ("the '343 patent") constitute prior art to the '290 patent. I understand that the '225 patent relates to compositions of bromfenac and polysorbate 80, while the '343 patent relates to compositions of diclofenac potassium and tyloxapol. Xibrom® and Bromday®, which are products that use the active ingredient bromfenac, use polysorbate 80 as the surfactant. (Ex. 2027; Ex. 2190.) However, I understand that the Patent Owners contend that Xibrom® and Bromday® do not constitute prior art to the '290 patent. I also understand that there are no commercial products that use the active ingredient diclofenac potassium and the surfactant tyloxapol in order to treat inflammation or pain following cataract surgery.⁸ (Ex. 2153, at 5.)

56.

I understand that the compositions of bromfenac and tyloxapol

PAGE 24 OF 123

⁸ Voltaren® uses diclofenac sodium as the active ingredient, but does not contain tyloxapol. (Ex. 2057.)

disclosed and claimed in the '290 patent result in a formulation to treat inflammation or pain following cataract surgery that has a lower, more natural pH level with improved ocular penetration relative to other bromfenac formulations, allowing Prolensa® to deliver the same clinical efficacy, but using a lower concentration of the active ingredient bromfenac and a lower concentration of surfactant relative to other bromfenac formulations. (Ex. 2116, at ¶41-43; Ex. 2119; Ex. 2223;

.) The reduced concentrations of active ingredient and surfactant, as well as the lower pH, result in an improved side effect profile relative to other NSAID formulations, with no stinging or burning. (Ex. 2116, at ¶39.) The lower pH and reduced side effects make Prolensa® more comfortable to use relative to other NSAID formulations and enhance patient compliance. (Ex. 2116, at ¶39.)

III. FRAMEWORK OF ANALYSIS

57. To assess the commercial success of the inventions described in the claims of the '290 patent, I performed a two-part analysis. First, I examined whether the product embodying the patented inventions has been successful in the marketplace. As part of this analysis, I considered information related to the competitive landscape as well as the absolute and relative performance

of Prolensa®.

58. Second, I evaluated the nexus between the success of the product embodying the '290 patent and the benefits and advantages made possible by the patented inventions. For this assessment, I identified the primary benefits and advantages of the patented inventions, particularly in relation to other ophthalmic NSAIDs indicated for the treatment of inflammation or inflammation and pain following cataract surgery, and examined the extent to which these benefits and advantages contributed to the marketplace success of the product.

59. It is my understanding that "commercial success" is a legal construct that has been established through case law. I understand that the commercial success of the product must be due to the merits of the claimed invention beyond what is readily available in the prior art. (*J.T. Eaton & Co. v. Atlantic Paste & Glue Co.*, 106 F.3d 1563, 1571 (Fed. Cir. 1997).)

60. I also understand that in order for there to be a finding of commercial success, it is not necessary that the patent owner sell every conceivable embodiment of the claims in the patent. Additionally, I understand that the commercial success analysis does not require that the patented features of the invention be the only reason for a product's success. Instead, the features must be a motivating (or important) factor. In this way, the existence of

other demand drivers does not negate a showing of commercial success as long as there is proof that the success was a direct result of the claimed invention. That is, a causal correlation (or "nexus") must exist between the merits of the invention and the marketplace success of the product. From an economic perspective, this makes sense because demand for any product, pharmaceutical or not, is driven by a host of factors, not just one. (*See, e.g.*, Ex. 2234, at 49.)

IV. COMMERCIAL SUCCESS OF THE '290 PATENT

61.

Prolensa® has been a marketplace success, as demonstrated by its

overall level of sales and prescriptions as well as its share relative to other competing branded and generic ophthalmic NSAIDs. Prolensa® achieved its competitive position and sales success despite the existence of numerous established branded and generic ophthalmic NSAIDs that are indicated for the treatment of inflammation or inflammation and pain following cataract surgery. Moreover, there is a nexus between the marketplace success of Prolensa® and the claims of the '290 patent.

A. Marketplace Success

1. Absolute Performance of Prolensa®

62. As noted above, Prolensa® received FDA approval and was made commercially available as of April 2013. (Ex. 2176; Ex. 2211.) Since its

launch, sales of Prolensa® have been substantial, according to data from the market research firm IMS. As shown in Appendix 13, total U.S. sales increased from \$16.5 million in the third quarter of 2013 (Prolensa®'s first full quarter) to \$31.2 million in the third quarter of 2015. Prolensa® sales in the third quarter of 2015 were higher than in any prior quarter. (Appendix 13.)

- 63. U.S. Prolensa® sales totaled \$44.3 million in 2013, during its first nine months in the marketplace. (Appendix 13.) In 2014, U.S. sales were \$111.3 million. (Appendix 13.) In total, since its approval in April 2013 and through the third quarter of 2015, Prolensa® has generated \$246.9 million in U.S. sales during its first ten quarters. (Appendix 13.)
- 64. The number of Prolensa® prescriptions⁹ in the U.S. also has increased significantly, growing from approximately 96,000 in the third quarter of 2013 (Prolensa®'s first full quarter) to just under 169,000 in the third quarter of 2015. (Appendix 13.) The peak number of prescriptions during

⁹ I understand that IMS's National Prescription Audit ("NPA") prescription data are collected from a "universe of retail, standard mail service, specialty mail service and long-term care pharmacies" and omit data from hospital pharmacies. (Ex. 2192.) Accordingly, IMS data may understate the usage of post-operative inflammation drugs such as Prolensa® and other competing NSAIDs.

this time period was 169,388, which occurred in the fourth quarter of 2014. (Appendix 13.)

65.

66.

Annual U.S. Prolensa® prescriptions totaled approximately 262,000 in 2013 and approximately 650,000 in 2014. (Appendix 13.) Since its approval in April 2013 and through the third quarter of 2015, there have been approximately 1.4 million prescriptions for Prolensa® dispensed in the U.S. (Appendix 13.) These prescriptions account for nearly 3.5 million milliliters of Prolensa® sold in the U.S. (Appendix 13.)

2. Relative Performance of Prolensa®

a. Initially

The success of Prolensa® is significant in light of the timing of its entry and the marketplace in which it competes. Bausch & Lomb received FDA approval for Prolensa® in April 2013. (Ex. 2176. *See also*, Ex. 2218.) However, this was more than two decades after the March 1991 approval of Voltaren® and the November 1992 approval of Acular®. (Ex. 2161; Ex. 2162.) Acular LS®, Nevanac®, and Acuvail® were subsequently approved between 2003 and 2009. (Ex. 2163; Ex. 2165; Ex. 2167.) Additionally, Ilevro® received approval in October 2012, six months prior to Prolensa®'s approval. (Ex. 2178.)

67. Numerous generic NSAIDs were also available at the time of Prolensa®'s approval and commercial launch. Generic ophthalmic solutions

26

PAGE 29 OF 123

of diclofenac sodium (the active ingredient in Voltaren®) and ketorolac tromethamine (the active ingredient in Acular®), were approved in December 2007 and November 2009, respectively. (Ex. 2161; Ex. 2162; Ex. 2168; Ex. 2169; Ex. 2170.) Moreover, the first generic version of bromfenac was launched in May 2011 by Mylan and Coastal Pharmaceuticals. (Ex. 2214; Ex. 2242.) Thus, by the time Prolensa® received FDA approval, on April 5, 2013, at least six branded drugs and three generic drugs, including generic bromfenac, had already received FDA approval to treat similar indications as Prolensa®. (Ex. 2176.)

68.

This environment suggests two potential challenges for Prolensa®. First, it is well established in the economics literature that late entry typically reduces the market share that a product can attain. (Ex. 2157, at 645, 655.) This relationship may be even more pronounced in the pharmaceutical industry, where habit weighs strongly in prescription and consumption decisions. (Ex. 2142, at 349, 363, 367.) In other words, if doctors are used to prescribing one form of a drug, they will be reluctant to switch to a different treatment unless there is a compelling reason to do so, and the longer they have been prescribing a particular formulation, the less likely they are to switch to a new formulation. (*See, e.g.*, Ex. 2142, at 367-68.) Here, despite the fact that Prolensa® was a late entrant, it quickly generated substantial sales, thus demonstrating the popularity and acceptance of the patented technology in the marketplace. As shown in Appendix 3 and Appendix 6, in the fourth quarter of 2013, which was Prolensa®'s second full quarter of commercial availability, Prolensa® accounted for approximately 31.3 percent of the total sales and 16.2 percent of the total prescriptions of ophthalmic NSAIDs indicated for the treatment of inflammation or inflammation and pain following cataract surgery.¹⁰

69. Second, the availability of generics within a class of medications tends to generate resistance from insurance companies regarding the coverage of branded drugs on formularies, which tends to put branded drugs at a competitive disadvantage to generics within the same general class. In this regard, Prolensa® has had to compete with generic NSAIDs that have been available since at least 2007, including generic bromfenac, which has been available since May 2011. (Ex. 2170; Ex. 2242.)

b. Over Time

70. Despite entering a very crowded business, within its first few quarters of availability, Prolensa® captured a substantial share of prescriptions of ophthalmic NSAIDs indicated for the treatment of inflammation or

PAGE 31 OF 123

¹⁰ When adjusted to include the additional NSAIDs Ocufen®, generic flurbiprofen sodium, and Acular PF®, Prolensa® accounted for approximately 31.1 percent of total sales and 15.6 percent of total prescriptions. (Appendix 4; Appendix 7.)

inflammation and pain following cataract surgery.

- 71. According to IMS, since the second quarter of 2013, Prolensa® has accounted for 15.3 percent of total U.S. prescriptions of ophthalmic NSAIDs indicated for the treatment of inflammation or inflammation and pain following cataract surgery.¹¹ (Appendix 6.) Since the fourth quarter of 2013, Prolensa®'s second full quarter of commercial availability, Prolensa®'s share of competing U.S. ophthalmic NSAID prescriptions has ranged from 16.2 percent to 17.8 percent each quarter. (Appendix 6.) Since the second quarter of 2013, Prolensa®'s 15.3 percent of U.S. prescriptions of ophthalmic NSAIDs indicated for the treatment of inflammation or inflammation and pain following cataract surgery is third highest among all competing ophthalmic NSAIDs during this period, behind generic ketorolac tromethamine and only 0.4 percent lower than the branded drug Ilevro®. (Appendix 6.) In the third quarter of 2015, Prolensa® accounted for 17.6 percent of competing U.S. ophthalmic NSAID prescriptions. (Appendix 6.)
- 72.

The marketplace success of Prolensa® is further evident from an analysis of the total U.S. sales relative to other ophthalmic NSAIDs with

PAGE 32 OF 123

¹¹ When adjusted to include the additional NSAIDs Ocufen®, generic flurbiprofen sodium, and Acular PF®, Prolensa® accounted for approximately 14.7 percent of total prescriptions. (Appendix 7.)

similar indications. Prolensa®'s share of the competing U.S. ophthalmic NSAID revenues since its launch in the second quarter of 2013 is 29.0 percent, essentially tied with Ilevro® for the highest among all ophthalmic NSAIDs indicated for the treatment of inflammation or inflammation and pain following cataract surgery.¹² (Appendix 3.) Since the fourth quarter of 2013, Prolensa®'s second full quarter of commercial availability, Prolensa®'s share of the competing U.S. ophthalmic NSAID revenues has ranged from 31.3 percent to 33.5 percent each quarter. (Appendix 3.) In the third quarter of 2015, Prolensa® accounted for 32.3 percent of total U.S. revenues from prescriptions of ophthalmic NSAIDs indicated for the treatment of inflammation and pain following cataract surgery. (Appendix 3.)

c. Third-Party Perceptions

73.

A variety of third parties have noted that the sales and profits of Prolensa® have been, and are forecasted to be, substantial. For example, in May 2012, SunTrust Robinson Humphrey projected a \$400 million potential market size for Prolensa® starting in 2013. (Ex. 2154, at 3.) Based on data from IMS, Prolensa® has already generated \$246.9 million in revenue

PAGE 33 OF 123

¹² When adjusted to include the additional NSAIDs Ocufen®, generic flurbiprofen sodium, and Acular PF®, Prolensa® accounted for approximately 28.8 percent of total sales. (Appendix 4.)

through its first ten quarters of U.S. commercial sales, and sales have reached new quarterly highs in each of the three most recent quarters. (Appendix 13.)

- 74. The SunTrust Robinson Humphrey sales forecast is consistent with forecasts from other market analysts. For example, a February 2014 research report from HSBC Global Research forecasted that Prolensa® sales would reach \$100 million per year within two to three years. (Ex. 2156.) Notably, this analyst report is available on the website of Lupin, one of the companies challenging the '290 patent at the PTAB.¹³ Lupin submitted an ANDA for generic bromfenac ophthalmic solution, intending to be a generic version of Prolensa®, three months after Prolensa® received FDA approval in April 2013. (Ex. 2082, at ¶172.)
- 75. A June 2014 report from UBS forecasted Prolensa® sales of \$91.4 million in 2014 and \$111 million in 2015. (Ex. 2204, at 14.) Data from IMS shows that U.S. sales of Prolensa® totaled \$111.3 million in 2014, and \$91.3 million through the first three quarters of 2015, which is on pace to exceed these third-party forecasts. (Appendix 13.)
- 76.

More recent forecasts have projected continued growth in Prolensa®

¹³ Lupin is challenging the '290 patent in IPR2015-01099. See Lupin Ltd. et al. v. Senju Pharmaceutical Co., Ltd. et al., IPR2015-01099 (Paper 1).

sales in the coming years. For example, an October 2015 report by UBS projected Prolensa® sales to reach \$173.8 million annually by 2020. (Ex. 2203, at 7.)

77. Industry analysts have noted how Prolensa®'s sales success is a key driver for Valeant's (the parent company to Bausch & Lomb) overall company growth. For instance, a July 2015 report from CIBC noted that Valeant's "[o]rganic growth continues to come in well above expectations" and that this outperformance was being driven by several U.S. drugs, including Prolensa®. (Ex. 2235, at 3.)

d. Licensing Activity

The Patent Owners here have entered into several licenses covering the '290 patent. On or around May 14, 2015, the Patent Owners entered into a confidential settlement and license agreement with Apotex Inc. and Apotex Corp (collectively, "Apotex") covering the '290 patent, as well as four other patents owned by Patent Owners – the '431 patent as well as U.S. Patent Nos. 8,754,131 (the "'131 patent"); 8,871,813 (the "'813 patent"); and 8,927,606 (the "'606 patent"). (Ex. 2024.) The license was entered into in settlement of existing litigation between the parties. According to the Stipulated Consent Judgment and Injunction issued by the court in that litigation, Apotex stipulated that the patents at issue in that litigation,

78.

including the '290 patent, were valid, enforceable, and would be infringed by the generic product that is the subject of Apotex's ANDA 207334. (Ex. 2024.) I understand that the subject of Apotex's ANDA 207334 was a generic formulation of Prolensa®.

79.

On or around June 4, 2015, the Patent Owners entered into a confidential settlement and license agreement with Paddock Laboratories, LLC; L. Perrigo Company; and Perrigo Company (collectively, "Paddock") covering the '290 patent, as well the '431 patent, the '131 patent, the '813 patent, and the '606 patent. (Ex. 2123.) The license was entered into in settlement of existing litigation between the parties. According to the Stipulated Consent Judgment and Injunction issued by the court in that litigation, Paddock stipulated that the patents at issue in that litigation, including the '290 patent, were valid, enforceable, and would be infringed by the generic product that is the subject of Paddock's ANDA 207584. (Ex. 2123.) I understand that the subject of Paddock's ANDA 207584 was a generic formulation of Prolensa®.

80.

On or around June 30, 2015, the Patent Owners entered into a confidential settlement and license agreement with Metrics, Inc.; Coastal Pharmaceuticals, Inc.; Mayne Pharma Group Limited; and Mayne Pharma (USA), Inc. (collectively, "Metrics") covering the '290 patent, as well the

'431 patent, the '131 patent, the '813 patent, and the '606 patent. (Ex. 2122.) The license was entered into in settlement of existing litigation between the parties. According to the Stipulated Consent Judgment and Injunction issued by the court in that litigation, Metrics stipulated that the patents at issue in that litigation, including the '290 patent, were valid, enforceable, and would be infringed by the generic product that is the subject of Metrics's ANDA 206257. (Ex. 2122.) I understand that the subject of Metrics's ANDA 206257 was a generic formulation of Prolensa®.

81. The Patent Owners have entered into at least three licenses in which the licensees have stipulated that the '290 patent is valid and enforceable and would be infringed by a generic version of Prolensa®.

B. Causal Nexus

1. Benefits of the Patented Inventions

82. I understand that the patented inventions enable a number of benefits. I understand that the compositions of bromfenac and tyloxapol disclosed and claimed in the '290 patent result in a formulation that has a lower, more natural pH level with improved ocular penetration relative to other bromfenac formulations used to treat inflammation or inflammation and pain following cataract surgery, allowing Prolensa® to deliver the same clinical efficacy, but using a lower concentration of the active ingredient bromfenac

and a lower concentration of surfactant relative to other bromfenac formulations. (Ex. 2116, at ¶¶41-43; Ex. 2119; Ex. 2223;

.) The reduced concentrations of active ingredient and surfactant, as well as the lower pH, result in an improved side effect profile relative to other NSAID formulations, with no stinging or burning. (Ex. 2116, at ¶¶41-43.) The lower pH and reduced side effects make Prolensa® more comfortable to use relative to other NSAID formulations and enhance patient compliance.

(Ex. 2116, at ¶39.)

83.

Prior to the commercial release of Prolensa®, available ophthalmic NSAID treatments for inflammation or inflammation and pain following cataract surgery (including Xibrom® and Bromday®) often resulted in painful burning and stinging when applied to a patient's eye. (Ex. 2116, at ¶36.)

84. I understand that Prolensa® is characterized by a lower concentration of active ingredient and surfactant as well as improved ocular penetration relative to other bromfenac formulations because of its unique formulation, which includes tyloxapol. This improved formulation results in a drug that is more comfortable to apply than other available treatments. I understand that Prolensa® has a pH level that is lower than other bromfenac formulations and closer to the pH level of natural tears, and that Prolensa® was not reported to cause any burning or stinging in patients. (Ex. 2116, at ¶¶39, 41.)

According to Dr. Williams, the benefits that result from combining bromfenac with tyloxapol instead of polysorbate 80 were unexpected. (Ex. 2082, at ¶59.) Specifically, according to Dr. Williams, tyloxapol's ability to chemically stabilize bromfenac was unexpected, since substituting one nonionic surfactant for another (*e.g.*, substituting tyloxapol for polysorbate 80) would not have been expected to affect chemical stability at all. (Ex. 2082, at ¶156.) Instead, according to Dr. Williams, the use of tyloxapol instead of polysorbate 80 resulted in "vastly superior chemical stability." (Ex. 2082, at ¶156.) The unexpected improvement in stability permitted formulating Prolensa® with a lower concentration of surfactant and a significant reduction in pH level, which resulted in a lower concentration of bromfenac without any reduction in efficacy. (Ex. 2082, at ¶¶168-70.)

a. Clinical Importance of the Benefits

86. The benefits of pharmaceuticals are evaluated by patients and intermediaries. An intermediary is usually the prescribing physician. As discussed in Dr. Trattler's declaration, physicians consider the efficacy, safety, and side effects of treatments when making their prescribing decisions. (Ex. 2116, at ¶¶37-43.) Moreover, physicians consider the

85.

likelihood that patients will be willing and able to comply with the prescribed course of treatment in the face of possible side effects when making their prescribing decisions. (Ex. 2116, at ¶39.)

87. As described above, other available ophthalmic NSAIDs for the treatment of inflammation or inflammation and pain following cataract surgery were known to result in painful burning and stinging. (Ex. 2116, at ¶36.) These side effects have a negative impact on patient compliance, increasing the risk of developing serious post-operative complications, such as cystoid macular edema, and resulting in prolonged post-operative pain. (Ex. 2116, at ¶36, 39.)

88. Prolensa®'s formulation results in a lower, more natural pH level and improved ocular penetration of the active ingredient bromfenac relative to other bromfenac formulations used to treat inflammation or inflammation and pain following cataract surgery, enabling the use of a relatively low concentration of bromfenac. (Ex. 2116, at ¶¶41-42.) As a result, patients who use Prolensa® experience a reduced exposure of surgically compromised tissue to the active drug ingredient, without a loss of efficacy. (Ex. 2116, at ¶42.) According to several studies, limiting ocular exposure to a medication may result in a reduced incidence of adverse events. (Ex. 2119; Ex. 2228, at 26.) Notably, the advanced formulation of Prolensa® relative to

Bromday® allows Prolensa® to achieve the same clinical efficacy as Bromday® with a more favorable side effect profile and a lower concentration of the active ingredient bromfenac while maintaining oncedaily dosing. This is in contrast to nepafenac, the only other NSAID approved for once-daily dosing, in which a lower concentration of active ingredient is associated with more frequent dosing requirements. (Ex. 2119.) Specifically, the once-daily formulation of nepafenac contains triple the drug concentration compared with the alternative, three-times-daily formulation. (Ex. 2119.)

89.

Moreover, as discussed above, Prolensa® exhibits a superior side effect profile, with no reported burning or stinging, relative to other available ophthalmic NSAIDs with similar indications. This superior side effect profile makes it easier for patients to adhere to their prescribed treatment schedule, reducing the risk of post-operative complications and prolonged pain. (Ex. 2116, at ¶39.) These benefits represent a significant improvement over prior ophthalmic NSAIDs that exhibited unfavorable side effect profiles, drug concentrations, and/or dosing schedules. As one medical study noted, "[t]he lower concentration of bromfenac 0.07% combined with its once-daily dosing may help further improve patient adherence and compliance." (Ex. 2119.)

PAGE 41 OF 123

Dr. Trattler described the development of Prolensa® as "highly significant to the field of ophthalmology and cataract surgery." (Ex. 2116, at ¶52.) Prolensa® was the first available ophthalmic NSAID to treat inflammation or inflammation and pain following cataract surgery without the presence of painful burning or stinging upon use. (Ex. 2116, at ¶52.) The improvements that resulted from the advanced formulation of Prolensa® relative to other bromfenac formulations have "substantially benefited patients." (Ex. 2116, at ¶51.) For many reasons, Dr. Trattler has concluded that Prolensa® is his "drug of choice in treating post-operative pain and inflammation" in his patients and that he "routinely prescribe[s] Prolensa® because, among other reasons, its lack of burning and stinging makes it more comfortable to patients, which fosters patient compliance." (Ex. 2116, at ¶142, 52.)

91.

90.

Dr. Steven Silverstein, founder of the Silverstein Eye Centers in Kansas City, Missouri, praised the benefits of the advanced formulation, noting that Prolensa® "provides powerful and rapid control of inflammation and pain following cataract surgery, confirming the potency of this NSAID and the benefits of the new formulation." (Ex. 2218.)

92. Additionally, Dr. Rajesh Rajpal, a leading cataract surgeon, described how the improved comfort and superior side effect profile of Prolensa® is

particularly important for elderly patients, on whom cataract surgery is typically performed. (Ex. 2116, at ¶60.) According to Dr. Rajpal, varying dosing schedules and burning or stinging sensations can lead to higher patient non-compliance, particularly in elderly patients. (Ex. 2116, at ¶60.)

93.

From an economic perspective, the fact that six generic drug companies, including the Petitioners here, have demonstrated a desire and intent (or, in economic terms, a "revealed preference") to offer a generic version of Prolensa® is very strong evidence that Prolensa® is believed by the Petitioners to be a commercial success. (Ex. 2082, at ¶¶171-72.) Petitioners could have chosen to formulate and offer for sale a generic version of Xibrom®, the twice-daily bromfenac 0.09 percent solution developed by ISTA that uses polysorbate 80 as a surfactant and that has been off patent and without marketing exclusivity since January 2009, or Bromday®, the once-daily bromfenac 0.09 percent solution developed by ISTA that uses polysorbate 80 as a surfactant and that is currently off patent. (Ex. 2158; Ex. 2181; Ex. 2199, at 7.) Petitioners could also have chosen to formulate and offer for sale a generic version of any number of different topical ophthalmic NSAIDs used to treat inflammation or inflammation and pain resulting from cataract surgery, such as Voltaren® gel, Voltaren® solution, or Acular® solution. (Ex. 2161; Ex. 2162; Ex. 2166; Ex. 2179; Ex.

2180; Ex. 2182.) None of these other NSAIDs are currently protected by patents or subject to any exclusivity, and the Petitioners could file an ANDA for these products without incurring the risk and expense of litigation.¹⁴

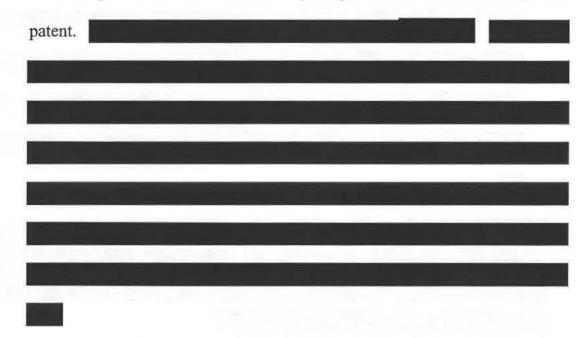
94. From a business perspective, it would make little sense for the Petitioners to invest substantial resources in pursuit of such a generic product and the pursuit of regulatory approval (not to mention participating in this IPR) unless they believed that the underlying branded product has been and will continue to be a commercial success. In particular, the fact that Petitioners are seeking approval for a generic version of once-daily bromfenac 0.07 percent solution with tyloxapol as the surfactant as opposed to, for example, once-daily bromfenac 0.09 percent solution with polysorbate 80 as the surfactant (*i.e.*, Bromday®) or another competing NSAID, indicates that they believe that there are specific advantages to the claims of the '290 patent that differentiate Prolensa® from other bromfenac formulations and from other competing ophthalmic NSAIDs. If that were not the case (*i.e.*, if Prolensa® were not considered to be a commercially

¹⁴ I am not aware of whether any of the Petitioners have filed an ANDA for any other topical ophthalmic NSAIDs or corticosteroids. Even if one or more have, the choice to pursue an ANDA for Prolensa® suggests that Petitioners recognize that there is incremental value associated with offering once-daily bromfenac 0.07 percent solution formulation.

successful product by the Petitioners), one would not expect the Petitioners to seek to introduce a generic version of the product, as there are myriad other competing ophthalmic NSAIDs, including two bromfenac formulations, for which generic drugs could be pursued instead of Prolensa®. The behavior and decisions of the Petitioners suggest that these companies regard Prolensa® as commercially successful and that there is a nexus between the commercial success of Prolensa® and the claimed features of the '290 patent.

b. Marketing Importance of the Benefits i. Healthcare Professionals

Prolensa® marketing and promotional materials include presentations that highlight Prolensa®'s advanced formulation and the benefits resulting from compositions of bromfenac and tyloxapol that are described in the '290

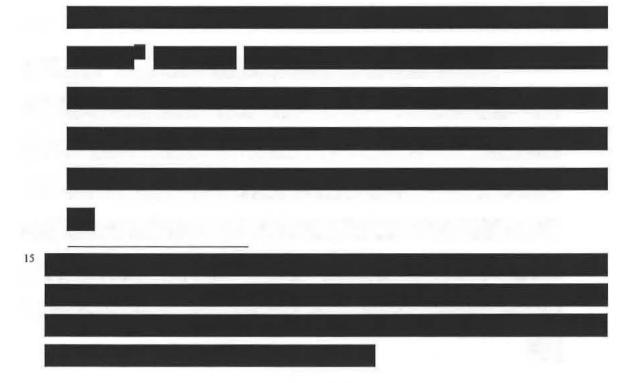


42

PAGE 45 OF 123

95.

Prolensa® marketing and promotional materials also include presentations delivered by practicing eye doctors and presentations developed for medical discussion groups. For example, Dr. Mitchell A. Jackson, founder and director of Jacksoneye, developed a presentation entitled "Selecting an NSAID for Cataract Surgery: What Really Matters" for the Annual American Society of Cataract and Refractive Surgery Symposium in April 2013. (Ex. 2211; Ex. 2221.) In the presentation, Dr. Jackson discussed Prolensa®'s "advanced formulation" and associated patient comfort levels, as well as the lower, more physiological pH level that enabled improved corneal penetration and thus a lower concentration of bromfenac. (Ex. 2221, at 728-29, 736, 739, 746-47.)



43

PAGE 46 OF 123

96.

Several Prolensa® presentations designed for medical audiences refer to the results of medical research evaluating the effectiveness of Prolensa®'s lower concentration formulation, including the Phase III clinical trials. (*See*,

e.g., ; Ex. 2221, at 740-46;

Results from the Phase III clinical trials as well as other medical research related to Prolensa® have been presented at medical industry meetings, including the November 2012 Annual Meeting of the American Academy of Ophthalmology and the May 2013 Association for Research in Vision and Ophthalmology Annual Meeting in Seattle, Washington. (Ex. 2223; Ex. 2224; Ex. 2227.) Materials prepared for these meetings noted that the advanced or modified formulation "facilitates intraocular penetration, thereby allowing a lower medication load while maintaining clinical efficacy with once daily dosing" and the "bromfenac 0.07% formulation has been shown to improve the penetration into ocular tissues thereby allowing for a lower concentration with comparable tissue concentrations to those seen with Bromday." (Ex. 2223; Ex. 2224; Ex. 2227.)

98. Other marketing and promotional materials geared towards the medical community include the Prolensa® formulary kit. The introduction to the formulary kit notes several of the benefits of the claimed inventions, including that Prolensa® "has an advanced formulation that facilitates

97.

corneal penetration" and "offers ocular comfort and convenience with [oncedaily dosing]." (Ex. 2219.)

ii. Other Audiences

- 99. Since its launch in April 2013, Bausch & Lomb marketing and promotional materials aimed at other audiences also have publicized the claimed features of the invention and their benefits, including Prolensa®'s advanced formulation (including tyloxapol), lower and more natural pH level, improved corneal penetration, proven efficacy, lower concentration of active ingredients, and enhanced comfort relative to other compositions. That is, the marketing of Prolensa® is closely linked to the relevant claims of the '290 patent.
- 100. Various Prolensa® information sheets and marketing materials describe Prolensa® as having an "advanced formulation [that] delivers corneal penetration" and "[p]roven efficacy at a lower concentration than Bromday®." (Ex. 2217; Ex. 2222; Ex. 2231.) Prolensa® information sheets also describe the improved side effect profile, noting that Prolensa® is "[d]esigned for ocular comfort and convenience." (Ex. 2217; Ex. 2231.) Information sheets also highlight the lower, more physiological pH level that facilitates corneal penetration. (Ex. 2231.) Several Prolensa® marketing materials specifically noted the inclusion of tyloxapol among the

ingredients. (See, e.g., Ex. 2217; Ex. 2225.)

101. Press releases also highlight the benefits enabled by the compositions described in the '290 patent. For example, ISTA's March 2012 press release about Prolensa® noted that Prolensa®'s advanced formulation "enhances the penetration of bromfenac into ocular tissue, allowing us to lower the concentration of bromfenac, while maintaining the convenience of oncedaily use." (Ex. 2230.) Bausch & Lomb's April 8, 2013 press release announcing the FDA approval for Prolensa® described the "benefits of the new formulation," including Prolensa®'s "high degree of efficacy and ocular comfort" and how Prolensa®'s "formulation [is] designed to facilitate ocular penetration" which "allows for a lower concentration of bromfenac." (Ex. 2218.) Similarly, Bausch & Lomb's April 17, 2013 press release noted that Prolensa®'s "advanced formulation allows for a lower concentration of the active ingredient, bromfenac, while maintaining the convenience of once daily dosing." (Ex. 2211.)

c. Third-Party Perceptions

102. Third-party observers also have highlighted the significance of Prolensa®'s improved formulation as covered by the '290 patent. And a number of practicing ophthalmologists have discussed the advantages of Prolensa® relative to other available ophthalmic NSAIDs.

- 103. According to Dr. Trattler, Prolensa® "is widely recognized in the medical community as a major improvement on existing therapies for its efficacy in treating inflammation post cataract surgery while maintaining a favorable side effect profile." (Ex. 2116, at ¶55.) Moreover, according to Dr. Trattler and Dr. Williams, Prolensa® has received widespread acclaim in the medical community and in medical journals. (Ex. 2116, at ¶61; Ex. 2082, at ¶59.)
- 104. Other recent articles discuss how Prolensa® offers advantages over prior generation NSAIDs. Dr. Eric Donnenfeld, Clinical Professor of Ophthalmology at NYU Medical Center, pointed out that newer generation NSAIDs, such as Prolensa®, are extremely potent, safer, better tolerated, and more effective than prior generation NSAIDs, and are "reformulated to achieve additional penetration into the eye [and are] very gentle on the ocular surface." (Ex. 2160; Ex. 2191.) Similarly, Dr. Elizabeth Davis, Managing Partner of Minnesota Eye Consultants and Adjunct Clinical Professor at the University of Minnesota, noted that she prefers Prolensa® to other available NSAIDs because "[i]t has anesthetic properties, so it is very comfortable to take." (Ex. 2191.)
- 105. In addition, a 2013 study by Dr. Thomas R. Walters *et al.* concluded that Prolensa®'s "advanced formulation of bromfenac, with a lower

concentration of active ingredient, has a similar efficacy profile as higher concentrations of bromfenac" and that Prolensa® "could be a valuable addition to surgeons' standard of care after cataract surgery." (Ex. 2228, at 31.)

2. Promotional Activities

106. Demand for a product, pharmaceutical or not, is driven by a host of factors, not just one.¹⁶ (*See, e.g.*, Ex. 2234, at 49.) Promotional efforts, such as journal advertising, samples, physician detailing, and coupons, along with physicians' habits, and insurance formulary restrictions, among other things, all have contributed to demand for Prolensa®. However, the existence of these demand drivers does not negate the fact that the patented inventions, *i.e.* compositions of the active ingredient bromfenac and the surfactant tyloxapol, are a critical set of factors that contribute to the demand for Prolensa®. Indeed, the patented inventions have been a motivating factor behind Prolensa®'s marketplace success.

a. Informative and Persuasive Advertising

107. The type and extent of advertising for any product or service varies depending on the nature of the promoted goods and/or services. Advertising

PAGE 51 OF 123

¹⁶ It is my understanding that to prove a patent is commercially successful does not require that the patented features be the only reason for a product's success. Instead, the patented feature must be a motivating factor.

can be either informative or persuasive. Informative advertising notifies consumers of a product's existence and its characteristics, while persuasive advertising seeks to create what economists refer to as "spurious product differentiation." (Ex. 2201, at 1705-06.) Research on pharmaceutical promotion has found that pharmaceutical promotion is primarily informative with respect to choices among differentiated drugs, but it is persuasive with respect to undifferentiated drugs. (Ex. 2143, at 2.)

108. These findings are consistent with the notion that prescription drugs are "experience goods" that must be tried in order to assess the quality of the product. Promotion for experience goods seeks to inform customers of the product's existence and to encourage them to try the product, but following trial, the physician's and consumer's own experience with the product will dictate future consumption decisions. According to Professor Berndt of the Massachusetts Institute of Technology,

> Clearly, prescription drugs are predominantly experience goods... Moreover, since physicians primarily make prescribing decisions, much pharmaceutical marketing is focused on them, with detailers providing information and free samples to physicians to encourage them to experiment with their product. (Ex. 2148, at 110-11.)

109. In other words, the goal of promotion in the pharmaceutical industry is to encourage physicians and patients to try a drug in order to experience the drug first-hand. Indeed, patients and prescribers must be made aware of

49

PAGE 52 OF 123

the existence and benefits of a drug's advantages, and pharmaceutical promotion fulfills this role.

b. Pharmaceutical Demand Factors

110. Economic studies of pharmaceutical markets indicate, not surprisingly, that demand is driven by many factors, including product characteristics (such as efficacy, dosing, and favorable side effect profiles), relative prices, promotional efforts, and various other factors, including formulary status and published clinical results.¹⁷ (*See, e.g.*, Ex. 2150, at 149-53; Ex. 2151, at 310-13; Ex. 2198, at 456-57; Ex. 2209, at 551, 573, 586.) Those studies show, for the most part, that each factor has a positive effect on pharmaceutical sales. And they show that these factors are often interrelated; that is, strategies (results) on one front are often correlated with strategies (results) on another.

i. Impact of Product Characteristics

111. There is no dispute that Bausch & Lomb has promoted Prolensa®. But the existence of promotional efforts does not negate a link between the marketplace success of Prolensa® and the benefits of the claimed inventions. There is well-established literature about the two-way

¹⁷ Insurance companies and health maintenance organizations ("HMOs") may impact the purchase decision through their use of formularies. (*See, e.g.*, Ex. 2145, at 169, 186; Ex. 2147, at 30-33; Ex. 2200, at 130-33.)

relationship between promotional efforts and product characteristics, which holds here. (*See, e.g.*, Ex. 2149, at 3, 17.) Substantial promotional efforts are generally undertaken for those products that are perceived to exhibit favorable product characteristics. As Guha, Li, and Scott observed,

[P]harmaceutical companies are more likely to invest in substantial marketing efforts for drugs with superior therapeutic benefits. Therefore, the level of marketing effort a pharmaceutical company invests in a drug and the impact of marketing on its success typically depend on the underlying therapeutic benefits of the drug. (Ex. 2232, at 3.)

112. According to Professor Berndt,

Marketing provides technology-transfer information to patients and providers on efficacy in the treatment of specific medical disorders based on clinical trial data; the incidence of side effects, adverse interactions, and contraindications; pharmacokinetic properties involving half-life and dosage; and, in the naturalistic environment outside the clinical trial setting, effectiveness information on post-launch product surveillance evidence, actual dosages, off-label usage (when appropriate), subpopulation differentials, tolerability, and cost-effectiveness. (Ex. 2148, at 111-12.)

113. In another paper, Professor Berndt and his co-authors noted that "drug marketing is largely a matter of providing information about the existence and usefulness of the product...." (Ex. 2151, at 296.) And Guha, Li, and Scott observed that "[m]arketing performs an important role in disseminating clinical and therapeutic information about a drug." (Ex. 2232, at 3.)

114. Since its launch in April 2013, Bausch & Lomb's marketing and promotional materials have publicized the claimed features of the inventions and their benefits, including Prolensa®'s advanced formulation (including tyloxapol), lower and more natural pH level, improved corneal penetration, proven efficacy, lower concentration of active ingredients, and enhanced comfort relative to other compositions. Companies typically feature messages in their promotional materials that they believe will resonate with clinicians. Bausch & Lomb's numerous references to the benefits of the patented inventions (including use of tyloxapol) suggest that the company believed that the provision of such information was important to physicians.

ii. Impact of Product Quality

- 115. Economic studies of pharmaceutical demand reveal that the level of promotion is a function of product quality. (Ex. 2149.) A study done by Professor Berndt and his colleagues showed that promotion responds positively to product improvements, including new FDA indications and other science-based events. (Ex. 2149, at 17.) The failure to acknowledge this relationship results in an overstatement of the distinct impact of promotional efforts on sales.
- 116. While promotion often is an important factor in driving product sales,it is no guarantee of marketplace success. Products may lose market share

52

PAGE 55 OF 123

(over time) or not gain as much as expected, despite intense promotional efforts by manufacturers. If a drug has weaknesses relative to other available drugs, even a substantial promotional campaign cannot create sales or preserve market share. Promotion succeeds only if the underlying product provides actual benefits. According to Mogelefsky,

In the end, though, no matter how wonderful an incentive [to a physician] may be, it's the scientific research behind a medication that's the bottom line.... 'The incentives will help you along, but the scientific backing of the drug is what's really going to help the physician decide.' (Ex. 2146, at 104-05.)

117. A study by Professors Mizik and Jacobson found that

[A]lthough detailing and free drug samples have a positive and statistically significant association with the number of new prescriptions issued by a physician, the magnitudes of the effects are modest. As such, our results challenge the two dominant views and support the contention that, rather than being easy marks, physicians are tough sells. (Ex. 2207, at 1705.)

118. In the present context, promotional efforts likely encouraged ophthalmologists (or medical professionals more generally) to try Prolensa® with their patients. But on-going prescribing of these products by these professionals has required satisfaction with the results achieved by the treatments, particularly in light of the availability of a variety of branded and generic alternatives. In short, if patients were dissatisfied with the product prescribed, the medical professionals would not continue prescribing the

PAGE 56 OF 123

product, regardless of the amount of promotion offered by the manufacturers. "Ultimately, the therapeutic benefits of a drug, and not marketing, are likely to determine whether or not it is a commercial success." (Ex. 2232, at 2.)

c. Impact of Promotional Efforts

119.

Substantial promotional efforts are undertaken for those products that are perceived to exhibit favorable product characteristics, and marketing for pharmaceuticals may vary due to a number of factors, including "the stage in the product life cycle, order of entry effects, and the arrival of new information about the drug." (Ex. 2149, at 3, 17; Ex. 2232, at 3.) The decision to strongly promote a drug is based on numerous factors. As Guha, Li and Scott observed "[f]ailing to properly control for these relevant factors in an economic analysis may erroneously lead to the conclusion that the marketing of a particular drug is excessive. Such conclusions cannot credibly undermine the link between the patented features and the commercial success of a drug." (Ex. 2232, at 4.)

120. As noted above, from an economic perspective, Bausch & Lomb would not devote significant resources to the marketing and promotion of Prolensa® unless it were rational to do so (*i.e.*, it would generate profits that justified the investment). At the time of Prolensa®'s launch in April 2013,

Bromday[®] was the third most prescribed ophthalmic NSAID indicated for the treatment of inflammation following cataract surgery, behind only generic ketorolac tromethamine and branded Nevanac®, accounting for approximately 19.1 percent of total prescriptions as of the first quarter of 2013.18 (Appendix 6.) Moreover, Bromday® had achieved the third most total prescriptions and at least a 19.1 percent share of competing ophthalmic NSAIDs in each of the eight quarters leading up to the April 2013 launch of Prolensa®.¹⁹ (Appendix 6.) Despite the continued marketplace success of Bromday®, ISTA and Bausch & Lomb invested resources and effort into supporting Prolensa®. (Ex. 2199, at 4.) Bausch & Lomb's investment in resources to promote Prolensa® – despite the fact that another ISTA/Bausch & Lomb bromfenac product, Bromday®, was already available - is consistent with a belief that Prolensa® possessed favorable product characteristics, and that the provision of that information would be relevant to clinicians.

¹⁸ When adjusted to include the additional NSAIDs Ocufen®, generic flurbiprofen sodium, and Acular PF®, Bromday® accounted for approximately 18.4 percent of total prescriptions in the first quarter of 2013 (Appendix 7.)

⁹ The eight quarters include the second quarter of 2011 through the first quarter of 2013.

d. Impact of Price

121.

Brand name drugs are typically more expensive than generic drugs in both absolute terms and in terms of the co-payments for which the patients are responsible. Health insurance plans that cover prescription drugs frequently have tiers that require different co-payments for brand name and generic drugs. (*See, e.g.*, Ex. 2144, at 61-62; Ex. 2233, at 120-21.) These differences in co-payments, along with managed care techniques, such as prior-authorization requirements and the common pharmacy practice of filling brand name prescriptions with generic substitutes when available, tend to drive patients away from brand name drugs like Prolensa® and towards generics. (*See, e.g.*, Ex. 2144, at 61-62; Ex. 2233, at 120-21.)

- 122. Since Prolensa®'s commercial launch in the second quarter of 2013, Prolensa® has sold for an average price of approximately \$176 per prescription. (Appendix 9.) This price is slightly higher than the average price per prescription for the two branded nepafenac compositions, Nevanac® and Ilevro®, but lower than the average price per prescription for each of the branded ketorolac tromethamine compositions. (Appendix 9.)
- 123. However, the difference in price per prescription may be impacted by differences in dosing regiments and unit volumes (*i.e.*, bottle sizes). For example, Prolensa®, Bromday®, and Ilevro® are the only branded drug

56

PAGE 59 OF 123

compositions approved for once-daily dosing, while each of the other branded drugs requires multiple doses to be administered daily. (Ex. 2155, at 18; Ex. 2193.) Prescriptions can also vary in the volume of drug prescribed. For example, Prolensa® is available in 1.6mL and 3mL bottles, while Acuvail is sold in packs of 30 single-use vials containing 0.4mL of liquid each, for a total volume of 12mL. (Ex. 2013; Ex. 2183.) Thus, another approach to comparing Prolensa®'s price to other competing ophthalmic NSAIDs is to examine the price per milliliter of drug. Bausch & Lomb has sold nearly 3.5 million milliliters of Prolensa® in the U.S., generating \$246.9 million in sales since the second quarter of 2013. (Appendix 13.) On this basis, the average price of Prolensa® per milliliter, \$71, is in the middle of the range of average prices seen in other branded drugs with similar indications, with several competing branded ophthalmic NSAIDs selling for lower average prices than Prolensa®. (Appendix 10.)

- 124. Prolensa®'s average price per prescription and average price per milliliter are both consistent with other competing ophthalmic NSAIDs. It does not appear that Prolensa®'s marketplace success is due to lower prices relative to other competing branded ophthalmic NSAIDs.
- 125. My analysis of the IMS data also shows that Prolensa® has sold at premiums, and in some cases significant premiums, relative to available

generic ophthalmic NSAIDs with similar indications, including bromfenac, diclofenac sodium, and ketorolac tromethamine, since Prolensa®'s commercial launch in the second quarter of 2013. (Appendix 9; Appendix 10.) However, despite Prolensa®'s higher prices relative to available generics, including generic bromfenac, it has been able to capture a substantial share of ophthalmic NSAID prescriptions. (Appendix 6.)

3. Promotional Spending

- 126. Since the second quarter of 2013 and through the third quarter of 2015, Bausch & Lomb's U.S. marketing expenditures for Prolensa® have totaled \$131.3 million. (Appendix 13.) During this period, Bausch & Lomb's U.S. marketing expenditures related to Prolensa® have ranged from \$9.4 million to \$16.1 million in each quarter, peaking in the third quarter of 2014. (Appendix 13.) In the third quarter of 2015, Bausch & Lomb invested \$9.4 million in U.S. marketing related to Prolensa®, its smallest quarterly marketing investment to date. (Appendix 13.)
- 127. As shown in Appendix 12, Bausch & Lomb's Prolensa® promotional spending as a percentage of its total sales is 53.2 percent since the commercial launch of Prolensa® in April 2013 through the third quarter of 2015. During this same period, promotional spending data are not available for several of the other branded ophthalmic NSAIDs indicated for the

treatment of inflammation or inflammation and pain following cataract surgery. However, to the extent that manufacturers invested in promotional spending for these other drugs, it is notable that many of these NSAIDs received FDA approval much earlier than Prolensa®, which was approved in April 2013. (Ex. 2176. *See also*, Ex. 2218.) Voltaren® and Acular® received FDA approval more than 20 years before the commercial launch of Prolensa®. (Ex. 2161; Ex. 2162.) Similarly, Acular LS®, Nevanac®, and Acuvail® received FDA approval in 2003, 2005, and 2009, respectively. (Ex. 2163; Ex. 2165; Ex. 2167.) The only competing ophthalmic NSAID that received FDA approval around the same time as Prolensa® was Ilevro®, which was approved in October 2012, six months prior to Prolensa®. (Ex. 2178.)

128. Notably, Prolensa® and Ilevro® – the two most recent ophthalmic NSAIDs indicated for the treatment of inflammation or inflammation and pain following cataract surgery that were introduced to the marketplace – each exhibit a higher ratio of promotional spending to sales compared with other competing ophthalmic NSAIDs in the last three years. This is to be expected, considering that Prolensa® and Ilevro® are the two newest entrants into this crowded marketplace where other available treatment options had been promoted for many years prior to their launch.

- 129. For Ilevro®, total promotional spending as a percent of sales was 29.3 percent during this period. (Appendix 12.) However, both Ilevro® and Prolensa® exhibit similar patterns in which promotional spending as a percent of sales exceeded 45 percent for several quarters before falling significantly in recent quarters. (Appendix 12.) Thus, it appears that promotional expenditures related to Prolensa® are consistent with promotional spending for Ilevro®, the only other competing NSAID for which recent promotional spending data are available.
- 130. These numbers are also consistent with industry data that the marketing-to-sales ratio generally is high following the launch of a drug. As Guha, Li, and Scott observed, "[p]harmaceutical marketing-to-sales ratios vary over the product life cycle. They are typically highest immediately following the launch of a new branded drug when the manufacturer must undertake a substantial effort to inform physicians of the existence and therapeutic benefits of the product." (Ex. 2232, at 4.) Guha, Li, and Scott cited to one academic article that noted the marketing-to-sales ratio may be as high as 100 percent in the first year. (Ex. 2232, at 4.)
- 131. In short, Prolensa® marketing expenditures, though substantial, have been neither unexpected nor extraordinary. It appears that Bausch & Lomb has undertaken substantial efforts to inform the marketplace about the

benefits and advantages of Prolensa®. Many of those benefits and advantages flow from the '290 patent. Marketing without the strength of the underlying science would be ineffective and unwise, and would have few long-lasting benefits.

V. CONCLUSION

- 132. Based upon my review and analysis of the evidence received to date, it is my opinion that Prolensa® has achieved substantial marketplace success in the United States. It is also my opinion that there is a nexus between the marketplace success of Prolensa® and the claims of the '290 patent. In short, the claims of the '290 patent at issue here have been a commercial success.
- 133. A number of facts demonstrate that Prolensa® has been a marketplace success. Prolensa®'s revenues and prescriptions grew substantially after its commercial launch in April 2013. In its first ten quarters of commercial availability, Prolensa® has been prescribed approximately 1.4 million times in the U.S., generating \$246.9 million in revenue. (Appendix 13.) Prolensa® achieved this success despite being introduced into a marketplace in which at least six branded drugs and three generic drugs had already received FDA approval to treat similar indications as Prolensa®. (*See, e.g.*, Appendix 2.) Since its introduction, Prolensa® has achieved the second highest share of

revenues and prescriptions among branded drugs with similar indications as Prolensa®. (Appendix 3; Appendix 6.)

134. A number of facts demonstrate that there is a causal nexus between the success of Prolensa® and the claimed features of the '290 patent. The patent describes and claims compositions of the active ingredient bromfenac and the surfactant tyloxapol. Specifically, claims of the '290 patent disclose stable aqueous liquid compositions of the active ingredient bromfenac and the surfactant tyloxapol, which is the technology embodied in the drug Prolensa®. (Ex. 2082, at ¶143.) I understand that these compositions have a lower, more natural pH level with improved ocular penetration relative to other bromfenac formulations, allowing Prolensa® to deliver the same clinical efficacy, but using a lower concentration of the active ingredient bromfenac and a lower concentration of surfactant relative to other bromfenac formulations. The reduced concentrations of active ingredient and surfactant, as well as the lower pH, result in an improved side effect profile relative to other NSAID formulations, with no stinging or burning. The lower pH and reduced side effects make Prolensa® more comfortable to use relative to other NSAID formulations and enhance patient compliance.

As explained by Dr. Trattler, the

development of Prolensa® was "highly significant to the field of ophthalmology and cataract surgery." (Ex. 2116, at ¶52.) The claimed features of the '290 patent have been a critical driver of the success of Prolensa®. That is, Prolensa® is consistently marketed based on the benefits made possible by the '290 patent.

- 135. Bausch & Lomb's promotional expenditures on Prolensa® are consistent with those for competing drugs with similar indications that became commercially available around the same time as Prolensa®. (Appendix 12.) Specifically, Bausch & Lomb's promotional expenditures as a percent of sales are consistent with those for Ilevro®, which was commercially released six months prior to Prolensa®. (Appendix 12.) And the success of Prolensa® is not attributable to any pricing advantages, because it has none.
- 136. I declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code.

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John C. Jarosz December 24, 2015

APPENDIX 1

JOHN C. JAROSZ Managing Principal

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John Jarosz, a Managing Principal of Analysis Group, Inc., specializes in applied microeconomics and industrial organization. He has performed research, given economic testimony and provided strategy consultation in intellectual property, licensing, commercial damages, and antitrust matters, including:

- Evaluation of damages in patent, copyright, trade secret, trademark and unfair competition cases. The types of damages have included lost profits, reasonable royalties, price erosion, unjust enrichment, accelerated market entry and prejudgment interest.
- Strategy consultation regarding the nature and value of technology, methods to share technology and reasonable compensation terms.
- Analysis and testimony regarding patent misuse and copyright misuse defenses, particularly concerning market definition and market power.
- General commercial damages testimony in a variety of cases and across numerous industries.

Mr. Jarosz received a J.D. from the University of Wisconsin. Mr. Jarosz holds an M.A. in Economics from Washington University in St. Louis, where he was a Ph.D. candidate and completed most of the program requirements. He also holds a B.A. in Economics and Organizational Communication from Creighton University in Omaha, Nebraska.

Prior to joining Analysis Group, Mr. Jarosz was a Director with Putnam, Hayes & Bartlett, Inc. Before that, he was a Senior Analyst with Richard J. Barber Associates, a Section Supervisor with Mutual of Omaha Insurance and a Research Analyst with the Center for the Study of American Business.

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PROFESSIONAL ASSOCIATIONS/MEMBERSHIPS

- American Economic Association
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- American Bar Association (Sections: Intellectual Property, Antitrust and Litigation)
- State Bar of Wisconsin (Section: Intellectual Property)
- American Intellectual Property Law Association (Sections: Federal Litigation, Licensing, Trade Secrets and Antitrust)
- Licensing Executives Society
 - Former Chair, Valuation and Taxation Committee
 - · Former Member, Certified Licensing Professional Exam Writing Team
- Former Advisory Board The IP Litigator
- Former Columnist (Damage Awards) The IP Litigator
- Omicron Delta Epsilon (International Honor Society in Economics)
- Association of University Technology Managers
- Certified Licensing Professional
- Intellectual Property Owners Association (Committee: Damages and Injunctions)
- 2011 Presidential Rank Review Board
- Referee, Journal of Forensic Economics
- The Sedona Conference (Sections: Best Practices in Patent Litigation, Patent Damages and Remedies)
- IAM Patent 1000 (2014, 2015): The World's Leading Patent Practitioners Economic Experts
- IP Law360: Voices of the Bar

TESTIMONIAL EXPERIENCE

Patent Cases

- <u>BroadSoft, Inc.</u> v. Callwave Communications, LLC United States District Court, District of Delaware (Case No. 13-cv-0711-RGA) Deposition testimony and expert report: reasonable royalty and prejudgment interest involving patents directed to telecommunications call processing.
- Arctic Cat, Inc., v. Polaris Industries, Inc. The United States Patent and Trademark Office (Case IPR2014-01427) Deposition testimony and expert declaration: commercial success involving patents directed to sideby-side all-terrain vehicles.

- Advanced Video Technologies, LLC v. <u>Blackberry, LTD. and Blackberry Corporation</u> United States District Court, Southern District of New York (Case No. 1:11-cv-06604-CM-RLE)
 Deposition testimony and expert report: reasonable royalty and prejudgment interest involving a patent directed to video compression and decompression.
- Drone Technologies, Inc. v. Parrot S.A. and Parrot, Inc.

United States District Court, Western District of Pennsylvania (Case No. 2:14-cv-0111) Trial and deposition testimony and expert report: reasonable royalty and prejudgment interest involving a patent directed to drone technology.

- <u>Bayer CropScience AG and Bayer CropScience NV</u> v. Dow AgroSciences LLC, Mycogen Plant Science Inc., Agrigenetics, Inc. d/b/a Mycogen Seeds LLC, and Phytogen Seed Company, LLC International Chamber of Commerce (Case No. 18892/VRO /AGF) Arbitration testimony and expert report: damages associated with alleged breach of contract and patent infringement involving genetically modified seed.
- <u>CertusView Technologies, LLC</u> v. S &N Locating Services LLC and S & N Communications, Inc.

United States District Court, Eastern District of Virginia, Norfolk Division (Case No. 2:13 –cv-346 (MSD/LRL))

Deposition testimony and expert report: reasonable royalty and prejudgment interest involving patents directed to creation of electronic sketches for utility location purposes.

- Ecolab USA Inc. and Kleancheck Systems, LLC v. <u>Diversey, Inc.</u>
 United States District Court for the District of Minnesota (Civil Action No. 12-cv-1984 (SRN/JJG))
 Deposition testimony and expert report: lost profits, reasonable royalty, and prejudgment interest involving products covering the monitoring of hospital cleaning.
- Intendis GmbH, Intraserv GmbH & Co. KG and Bayer Healthcare Pharmaceuticals Inc., v. Glenmark Generics Ltd. and Glenmark Generics Inc., USA. United States District Court, District of Delaware (Case No. 13-cv-421-SLR) Trial and deposition testimony and expert report: commercial success involving a patent directed to the treatment of certain skin diseases.
- Antares Pharma, Inc. v. Medac Pharma, Inc., Medac GmbH, Becton Dickinson France S.A.S., and Becton, Dickinson and Company

United States District Court, District of Delaware (C.A. No. 14-270-SLR) Deposition testimony and expert report: irreparable harm, balance of hardships, and public interest involving patents directed to methotrexate autoinjector products.

 Everlight Electronics Co. Ltd., and Emcore Corporation v. <u>Nichia Corporation and Nichia</u> <u>America Corporation v. Everlight Americas, Inc.</u>

United States District Court, Eastern District of Michigan, Southern Division (Case No.4:12-cv-11758 GAD-MKM)

Trial and deposition testimony, expert report and declaration: commercial success, lost profits, reasonable royalty, and prejudgment interest involving patents directed to LEDs.

Source Search Technologies, LLC v. Kayak.com, Inc.

United States District Court, District of New Jersey (Case No. 2:11-cv-03388-FSH-MAH) Deposition testimony and expert report: reasonable royalty and prejudgment interest involving a patent directed to online exchanges. Universal Electronics, Inc. v. Universal Remote Control, Inc.

United States District Court, Central District of California, Southern Division (Case No.SACV12-329AG (JPRx))

Trial and deposition testimony and expert report: reasonable royalty and prejudgment interest involving patents directed to universal remotes.

 <u>Baver Healthcare Pharmaceuticals, Inc. and Dow Pharmaceutical Sciences, Inc.</u> v. River's Edge Pharmaceuticals, LLC, Teresina Holdings, LLC, Medical Products Laboratories, Inc. and Stayma Consulting Services, LLC

United States District Court, Northern District of Georgia, Atlanta Division (Case No.11-cv-01634-RLV)

Deposition testimony and expert report: commercial success involving a patent directed to the treatment of certain skin diseases.

Prowess, Inc. v. RaySearch Laboratories AB, et al.

United States District Court, District of Maryland (Case No. 11 CV 1357 (WDQ)) Deposition testimony and expert report: lost profits, reasonable royalty and prejudgment interest involving patents directed to treatment planning software for radiation therapy.

 JDS Therapeutics, LLC and Nutrition 21, LLC v. <u>Pfizer Inc.</u>, <u>Wyeth LLC</u>, <u>Wyeth Consumer</u> <u>Healthcare Ltd.</u>, and <u>Wyeth Consumer Healthcare LLC</u>

United States District Court, Southern District of New York (Case No.1:12-cv-09002-JSR) Deposition testimony and expert report: commercial success, reasonable royalty, and unjust enrichment involving patents and trade secrets directed to the use of chromium picolinate in multivitamins.

comScore, Inc. v. Moat, Inc.

United States District Court, Eastern District of Virginia, Norfolk Division (Case No. 2:12CV695-HCM/DEM, Lead Case 2:12CV351-HCM/DEM)

Deposition testimony and expert report: lost profits, reasonable royalty and prejudgment interest involving patents directed to online analytics.

 <u>Impulse Technology Ltd.</u> v. Microsoft Corporation, Electronic Arts, Inc., Ubisoft Holdings, Inc., and Konami Digital Entertainment Inc.

United States District Court, District of Delaware (Case No. 11-586-RGA-CJB) Deposition testimony and expert report: reasonable royalty involving patents directed to video game motion detection functionalities.

LendingTree, LLC v. Zillow, Inc., <u>NexTag, Inc.</u>, and Adchemy, Inc.

United States District Court, Western District of North Carolina, Charlotte Division (Case No. 3-:10cv-439-FDW-DCK)

Trial and deposition testimony and expert report: lost profits, reasonable royalty and prejudgment interest involving patents directed to internet loan matching systems.

 <u>Network Protection Sciences, LLC</u> v. Fortinet, Inc. United States District Court, Northern District of California (Case No. 3:12-cv-01106-WHA) Deposition testimony and expert report: reasonable royalty and prejudgment interest involving patents directed to network security systems.

Ferring, B.V., v. Watson Laboratories, Inc. – Florida, Apotex Inc., and Apotex Corp. United States District Court, District of Nevada (Case Nos.3:11-cv-00481-RCJ-VPC, 3:11-cv-00485-RCJ-VPC, 3:11-cv-00853-RCJ-VPC, 3:11-cv-00854-RCJ-VPC, 2:12-cv-01935-RCJ-VPC, and 2:12cv-01941-RCJ-VPC)

Deposition testimony and expert report: commercial success involving patents directed to the treatment of menorrhagia.

PAGE 71 OF 123

- Shurtape Technologies, LLC and Shurtech Brands, LLC v. <u>3M Company</u> United States District Court, Western District of North Carolina (Case No.5:11-cv-00017)
 Deposition testimony and expert report: lost profits, reasonable royalty and prejudgment interest involving patents directed to painter's tape.
- <u>Abbott Biotechnology Ltd. and AbbVie, Inc.</u> v. Centocor Ortho Biothech, Inc. United States District Court, District of Massachusetts (Case No. 09-40089-FDS) Deposition testimony and expert report: lost profits, reasonable royalty and prejudgment interest involving patents directed to the treatment of rheumatoid arthritis.
- Delavau, LLC v. J.M. Huber Corporation and J.M. Huber Micropowders Inc. United States District Court, District of New Jersey (Case No.12-05378 (ES)(SCM)))
 Deposition testimony and expert declaration: preliminary injunctive relief involving patents directed to dietary calcium supplements.
- Carl B. Collins and Farzin Davanloo v. <u>Nissan North America, Inc. and Nissan Motor Co., Ltd.</u> United States District Court, Eastern District of Texas, Marshall Division (Case No.2:11-cv-00428-JRG)

Deposition testimony and expert report: reasonable royalty and prejudgment interest involving patents directed to automotive engines.

 Medicis Pharmaceutical Corporation; Dow Pharmaceutical Sciences, Inc.; and Alyzan, Inc. v. Actavis Mid Atlantic LLC

United States District Court, District of Delaware (Case No. 11-CV-409) Deposition testimony and expert report: commercial success involving a patent directed to delivery vehicles for treatment of dermatological disorders.

TomTom, Inc. v. <u>Michael Adolph</u> United States District Court, Eastern District of Virginia (Case No. 6:10-CV-521-LED) Deposition testimony and expert report: reasonable royalty and prejudgment interest involving patents directed to automotive navigation systems.

Wi-LAN Inc. v. Alcatel-Lucent USA Inc.; Telefonaktiebolaget LM Ericsson; Ericsson Inc.; Sony Mobile Communications AB; Sony Mobile Communications (USA) Inc.; HTC Corporation; HTC America, Inc.; Exedea Inc.; LG Electronics, Inc.; LG Electronics Mobilecomm U.S.A., Inc.; and LG Electronics U.S.A., Inc.

United States District Court, Eastern District of Texas (Case No. 6:10-CV-521-LED) Trial and deposition testimony, affidavit, and expert report: reasonable royalty and prejudgment interest involving patents directed to wireless telecommunication systems.

 <u>Epos Technologies Ltd.</u>; Dane-Elec S.A.; Dane-Elec Memory S.A.; and Dane-Elec Corporation USA v. Pegasus Technologies Ltd. and Luidia, Inc. United States District Court, District of Columbia (Case No. 07-cv-00416-WMN)

Deposition testimony and expert report: lost profits, reasonable royalty and prejudgment interest involving patents directed to digital pen products.

 Life Technologies Corporation; Applied Biosystems, LLC; Institute for Protein Research; Alexander Chetverin; Helena Chetverina; and William Hone v. Illumina, Inc. and Solexa, Inc. United States District Court, Southern District of California (Case No. 3:11-cv-00703)
 Deposition testimony and expert report: lost profits, reasonable royalty and prejudgment interest involving patents directed to DNA amplification and sequencing technology.

- <u>Dyson Technology Limited and Dyson, Inc.</u> v. Cornucopia Products, LLC United States District Court, District of Arizona (Case No. 2:12-cv-00924-ROS) Hearing testimony and expert declaration: irreparable harm involving patents directed to bladeless fans.
- I.E.E. International Electronics & Engineering, S.A. and IEE Sensing, Inc. v. <u>TK Holdings, Inc.</u> United States District Court, Eastern District of Michigan (Case No. 2:10-cv-13487)
 Deposition testimony and expert report: lost profits, reasonable royalty and prejudgment interest involving patents directed to capacitive sensing used in automotive seats.
- St. Clair Intellectual Property Consultants, Inc. v. <u>Acer, Inc., et al./Microsoft Corporation v. St.</u> <u>Clair Intellectual Property Consultants, Inc.</u>

United States District Court, District of Delaware (Case No. 09-354-JJF, 09-704-JJF and 10-282-LPS)

Trial and deposition testimony and expert report: reasonable royalty and prejudgment interest involving patents directed to power management, bus configuration and card slot technology in laptops and desktops.

 <u>CardioFocus, Inc.</u> v. Xintec Corporation (d/b/a Convergent Laser Technologies); Trimedyne, Inc.; and Cardiogenesis Corporation

United States District Court, District of Massachusetts (Case No. 1:08-cv-10285 NMG) Deposition testimony and expert report: reasonable royalty and prejudgment interest involving a patent directed to laser devices used for the treatment of advanced coronary artery disease.

Avocent Redmond Corp. v. Raritan Americas, Inc.

United States District Court, Southern District of New York (Case No. 10-cv-6100 (PKC)(JLC)) Deposition testimony and expert report: lost profits, lost royalties, reasonable royalty and prejudgment interest involving a patent and contract directed to software and hardware products and technologies that provide connectivity and centralized management of IT infrastructure through KVM switches.

 <u>Galderma Laboratories, L.P.; Galderma S.A.; and Galderma Research & Development, S.N.C.</u> v. Tolmar Inc.; and Actavia Mid Atlantic LLC

United States District Court, District of Delaware (Case No. 10-cv-45 (LPS)) Trial and deposition testimony and expert report: commercial success involving a patent directed to treatment of dermatological disorders.

Frontline Placement Technologies, Inc. v. CRS, Inc.

United States District Court, Eastern District of Pennsylvania (Case No. 2:07-CV-2457) Deposition testimony and expert report: lost profits, lost royalties, reasonable royalty and prejudgment interest involving a patent and contract directed to automated substitute fulfillment software.

Novozymes A/S and Novozymes North America, Inc. v. Danisco A/S; Genecor International Wisconsin, Inc.; Danisco US Inc.; and Danisco USA Inc.

United States District Court, Western District of Wisconsin (Case No. 10-CV-251) Trial and deposition testimony and expert report and expert declaration: lost profits, reasonable royalty, prejudgment interest and irreparable harm involving a patent directed to alpha-amylases used for fuel ethanol. Triangle Software, LLC v. <u>Garmin International, Inc.</u>; <u>Garmin USA, Inc.</u>; <u>TomTom, Inc.</u>; and <u>Volkswagen Group of America, Inc.</u>

United States District Court, Eastern District of Virginia, Alexandria Division (Case No. 1:10-CV-01457-CMH-TCB)

Deposition testimony and expert report: reasonable royalty and prejudgment interest involving a patent directed to providing personal navigation devise functionality.

Northeastern University and JARG Corporation v. Google, Inc.

United States District Court, Eastern District of Texas, Marshall Division (Case No. 2:07-cv-486(CE))

Deposition testimony and expert report: reasonable royalty and prejudgment interest involving a patent directed to internet index and search technology.

 <u>Pronova Biopharma Norge AS</u> v. Teva Pharmaceuticals USA, Inc.; Apotex Corp. and Apotex Inc.; Par Pharmaceutical, Inc.; and Par Pharmaceutical Companies, Inc. United States District Court, District of Delaware (Case Nos. 09-286-SLR/09-304-SLR/09-305-SLR-MPT)

Trial and deposition testimony and expert report: commercial success covering patents directed to treatment of HDL cholesterol and hypertriglyceridemia.

Eli Lilly and Company v. Wockhardt Limited and Wockhardt USA, Inc. United States District Court, District of Indiana, Indianapolis Division (Case No. 1:08-cv-1547-WTL-TAB)

Deposition testimony and expert report: commercial success covering a patent directed to treatment of depression, anxiety and pain.

Acorda Therapeutics, Inc. v. Apotex Inc. and Apotex Corp.

United States District Court, District of New Jersey (Case No. 2:07-cv-04937-JAG-MCA) Trial and deposition testimony and expert report: commercial success covering a patent directed to treatment of spasticity.

Bissell Homecare, Inc. v. Dyson, Inc.

United States District Court, Western District of Michigan (Case No. 1:08-cv-724) Deposition testimony and expert report: reasonable royalty and prejudgment interest involving patents directed to vacuum cleaner collection and discharge.

Toshiba Corporation v. Imation Corp.; Moser Baer India Ltd; Glyphics Media, Inc.; Ritek Corp.; Advanced Media, Inc.; CMC Magnetics Corp.; Hotan Corp.; and Khypermedia Corp. United States District Court, Western District of Wisconsin (Case No. 3:09-cv-00305-slc) Deposition testimony and expert report: reasonable royalty and prejudgment interest involving patents directed to DVDs.

Affinity Labs of Texas, LLC. v. <u>BMW North America, LLC, et al.</u>

United States District Court, Eastern District of Texas, Lufkin Division (Case No. 9:08-CV-00164-RC)

Trial and deposition testimony and expert report: reasonable royalty and prejudgment interest involving patents directed to connecting a portable audio player to an automobile sound system.

Regents of the University of Minnesota v. AGA Medical Corp.

United States District Court, District of Minnesota (Case No. 0:07-cv-04732 (PJS/RLE)) Deposition testimony and expert report: reasonable royalty and prejudgment interest involving patents directed to septal occlusion devices.

Ethicon Endo-Surgery, Inc. v. Hologic Inc. and Suros Surgical Systems, Inc.

United States District Court, Southern District of Ohio, Western Division (Case No. 07-cv-00834) Trial and deposition testimony and expert report: lost profits and reasonable royalty involving patents directed to biopsy equipment and methods, and the biopsy of soft tissue.

 LifeWatch Services, Inc. and Card Guard Scientific Survival, LTD. v. <u>Medicomp, Inc. and</u> <u>United Therapeutics Corp.</u>

United States District Court, Middle District of Florida, Orlando Division (Case No. 6:09-cv-1909-Orl-31DAB)

Hearing and deposition testimony and expert declaration: preliminary injunctive relief involving patents directed to ambulatory arrhythmia monitoring solutions.

 Medeva Pharma Suisse A.G. and Proctor & Gamble Pharmaceuticals, Inc. v. Roxane Laboratories, Inc.

United States District Court, District of New Jersey (Case No. 3:07-CV-05165-FLW-TJB) Deposition testimony and expert report: commercial success involving a patent directed to treatment of ulcerative colitis.

Humanscale Corp. v. CompX International, Inc. and CompX Waterloo

United States District Court, Eastern District of Virginia, Richmond Division (Case No. 3:09-CV-86-JRS)

Trial and deposition testimony and expert report: reasonable royalty and prejudgment interest involving patents directed to keyboard support mechanisms.

 Carl Zeiss Vision GMBH and Carl Zeiss Vision International GMBH v. Signet Armorlite, Inc. United States District Court, Southern District of California (Case No. 09-CV-0657-DMS (POR)) Trial testimony and deposition testimony and expert report: lost profits, reasonable royalty, and lost licensing fees involving a patent directed to progressive eyeglass lenses.

ShopNTown LLC v. Landmark Media Enterprises, LLC

United States District Court, Eastern District of Virginia, Norfolk Division (Case No. 2:08CV564) Deposition testimony and expert report: reasonable royalty and prejudgment interest involving a patent directed to rental matching systems over the internet.

Cerner Corp. v. <u>Visicu</u>, Inc.

United States District Court, Western District of Missouri, Western Division (Case No. 04-1033-CV-W-GAF)

Trial and deposition testimony and expert report: lost profits and reasonable royalty involving patents directed to electronic ICU monitoring systems.

Otsuka Pharmaceutical Co, Ltd., Inc., et al. v. Sandoz, Inc., et al.

United States District Court, District of New Jersey (Case No. 07-cv-01000) Trial and deposition testimony and expert report: commercial success covering a patent directed to the active ingredient of an atypical antipsychotic drug.

<u>Sanofi-Aventis Canada Inc.</u>; Schering Corp.; and Sanofi-Aventis Deutschland GmbH v. Apotex/Novopharm Limited

Federal Court of Canada (Case No. T-1161-07/T-161-07)

Trial testimony and expert report: lost profits and reasonable royalty involving a patent directed to hypertension treatment.

<u>C2 Communications Technologies, Inc.</u> v. Qwest Communications Corp; Global Crossing Telecommunications, Inc.; and Level 3 Communications, LLC

United States District Court, Eastern District of Texas, Marshall Division (Case No. 2-06CV-241 TJW)

Trial and deposition testimony and expert report: reasonable royalty and prejudgment interest involving a patent directed to carrying PSTN calls via Voice over Internet Protocol.

Siemens AG v. <u>Seagate Technology</u>

Aventis Pharma, S.A. v. Baxter Healthcare Corp.

United States District Court, Central District of California, Southern Division (Case No. SA CV 06-788 JVS (ANx))

Trial and deposition testimony and expert report: reasonable royalty and prejudgment interest involving a patent directed to hard disk drive technology.

 <u>Siemens Medical Solutions USA, Inc.</u> v. Saint-Gobain Ceramics & Plastics, Inc. United States District Court, District of Delaware (Case No. 07-190-SLR) Trial and deposition testimony and expert report: lost profits, reasonable royalty and prejudgment interest involving patents directed to medical scanner technology.

Arbitration Arbitration and deposition testimony and expert report: reasonable royalty and prejudgment interest involving a patent directed to hemophilia treatment.

Every Penny Counts, Inc. v. Bank of America Corp. and Bank of America, N.A.

United States District Court, Middle District of Florida, Fort Myers Division (Case No.2:07-CV-42-FTM-29SPC)

Deposition testimony and expert report: reasonable royalty and prejudgment interest involving a patent directed to the Keep the Change debit card program.

DEKALB Genetics Corp. v. Syngenta Seeds, Inc.; Golden Harvest Seeds, Inc.; Sommer Bros. Seed Co.; JR Robinson Seeds, Inc.; and Garst Seed Co.

United States District Court, Eastern District of Missouri (Case No.4:06CV01191MLM) Deposition testimony and expert report: reasonable royalty and prejudgment interest involving a patent directed to genetically modified corn.

 International Flora Technologies, Ltd. v. <u>Clarins U.S.A.</u> United States District Court, District of Arizona (Case No.2:06-CV-01371-ROS)

Deposition testimony and expert report: reasonable royalty and prejudgment interest involving patents directed to skin care products.

 Howmedica Osteonics Corp. v. Zimmer, Inc.; <u>Centerpulse Orthpedics, Inc. (formerly known as</u> <u>Sulzer Orthopedics, Inc.)</u>; and Smith & Nephew, Inc.

United States District Court, District of New Jersey (Case No.05-0897 (WHW)) Deposition testimony and expert report: lost profits, reasonable royalty and prejudgment interest involving a patent directed to hip implant technology.

 Elan Pharma International, Ltd. v. Abraxis Bioscience, Inc. United States District Court, District of Delaware (Case No.06-438-GMS) Trial and deposition testimony and expert report: reasonable royalty and prejudgment interest involving patents directed to nanotechnology drug delivery.

 Mobile Micromedia Solutions LLC v. <u>Nissan North America, Inc.</u> United States District Court, Eastern District of Texas, Texarkana Division (Case No.505-CV-230) Deposition testimony and expert report: reasonable royalty and prejudgment interest involving a patent directed to automotive entertainment systems.

Nichia Corp. v. Seoul Semiconductor, Ltd. and Seoul Semiconductor, Inc.

PAGE 76 OF 123

United States District Court, Northern District of California (Case No. 3:06-CV-00162-MMC (JCS)) Trial and deposition testimony and expert report: reasonable royalty, unjust enrichment and prejudgment interest involving patents directed to light emitting diodes.

<u>NetRatings, Inc.</u> v. WebSideStory, Inc.

United States District Court, Southern District of New York (Case No. 06-CV-878(LTS)(AJP)) Deposition testimony and expert report: reasonable royalty involving technology directed to internet audience measurement and analysis.

Ernest K. Manders, M.D. v. McGhan Medical Corp.

United States District Court, Western District of Pennsylvania (Case No. 02-CV-1341) Deposition testimony and expert report: reasonable royalty and prejudgment interest involving a patent directed to implantable tissue expanders.

 <u>Source Search Technologies, LLC</u> v. LendingTree, Inc.; IAC/InterActiveCorp; and ServiceMagic, Inc.

United States District Court, District of New Jersey (Case No. 2:04-CV-4420) Deposition testimony and expert report: reasonable royalty and prejudgment interest involving a patent directed to online exchanges.

The Boeing Co. v. <u>The United States</u>

United States Court of Federal Claims (Case No. 00-705 C)

Trial and deposition testimony and expert report: reasonable royalty and prejudgment interest involving a patent directed to a process for aging aluminum lithium alloys used for space shuttle external tanks.

Bridgestone Sports Co., Ltd. and Bridgestone Golf, Inc. v. Acushnet Co.

United States District Court, District of Delaware (Case No. 05-132-(JJF)) Deposition testimony and expert report: reasonable royalty and prejudgment interest involving patents directed to cores, intermediate layers and covers of golf balls.

Dyson Technology Ltd. and Dyson, Inc. v. Maytag Corp.

United States District Court, District of Delaware (Case No. 05-434-GMS) Trial and deposition testimony and expert report: reasonable royalty and prejudgment interest involving patents directed to upright cyclonic vacuum cleaners.

Verizon Services Corp. and Verizon Laboratories, Inc. v. <u>Vonage Holdings Corp. and Vonage</u> <u>America, Inc.</u>

United States District Court, Eastern District of Virginia (Case No. 1:06CV682) Trial and deposition testimony and expert report: permanent injunction, lost profits and reasonable royalty involving patents directed to a voice over internet protocol ("VoIP") platforms.

Hitachi, LTD v. BorgWarner, Inc.

United States District Court, District of Delaware (Case No. 05-048-SLR) Deposition testimony and expert report: reasonable royalty and prejudgment interest involving a patent directed to automotive cam shaft technology.

Janssen-Ortho Inc. and Daiichi Pharmaceutical Co., Ltd v. Novopharm Ltd. Canadian Federal Court (Case No. T-2175-04)

Trial testimony (written) and affidavit: commercial success covering a patent directed to the active ingredient of an anti-infective drug.

 Janssen-Ortho Inc. and Daiichi Pharmaceutical Co., Ltd v. The Minister of Health; and Apotex Inc.

Federal Court of Canada (Case No. T-1508-05)

Deposition testimony and expert report: commercial success interest involving a patent directed to an anti-infective drug.

<u>Innogenetics N.V.</u> v. Abbott Laboratories

United States District Court, Western District of Wisconsin (Case No. 05-C-0575-C) Trial and deposition testimony and expert report: reasonable royalty involving a patent directed to HCV genotyping.

O2 Micro International v. <u>Monolithic Power Systems, Inc.</u>

United States District Court, Northern District of California (Case No. 04-02000 CW;06-02929 CW) Deposition testimony and expert report: reasonable royalty and prejudgment interest involving patents directed to AC to DC power converter circuits used for backlights.

- <u>Solvay Solexis, Inc.</u> v. 3M Co.; 3M Innovative Properties Co.; and Dyneon LLC United States District Court, District of New Jersey (Case No. 04-06162 (FSH/PS))
 Deposition testimony and expert report: reasonable royalty and prejudgment interest involving a patent directed to low temperature fluoroelastomers.
- Target Technology Co., LLC v. Williams Advanced Materials, Inc., et al.

United States District Court, Central District of California (Case No. SACV04-1083 DOC (MLGx)) Deposition testimony and expert report: reasonable royalty and design-around alternatives involving a patent directed to silver alloy sputtering targets for DVDs.

Metrologic Instruments, Inc. v. Symbol Technologies, Inc.

United States District Court, District of New Jersey (Case No. 03cv2912 (HAA)) Deposition testimony and expert report: reasonable royalty and prejudgment interest involving patents directed to bar code scanners.

<u>Eaton Corp.</u> v. ZF Meritor, LLC

United States District Court, Eastern District of Michigan (Case No. 03-74844) Deposition testimony and expert report: reasonable royalty and prejudgment interest involving patents directed to truck clutches and transmissions.

Meritor Transmission Corp. v. <u>Eaton Corp.</u>

United States District Court, Western District of North Carolina (Case No. 1:04-CV-178) Deposition testimony and expert report: reasonable royalty and prejudgment interest involving a patent directed to truck transmissions.

Monsanto Co. v. Syngenta Seeds, Inc.

United States District Court, District of Delaware (Case No. 04-305-SLR) Deposition testimony and expert report: reasonable royalty involving patents directed to genetically modified corn seed.

Indiana Mills & Manufacturing, Inc. v. Dorel Industries, Inc.

United States District Court, Southern District of Indiana (Case No. 1:04-CV-1102) Deposition testimony and expert report: damages and profits associated with alleged contract breach and patent infringement involving technology directed to automobile child restraint systems.

 Paice LLC v. <u>Toyota Motor Corp.</u> United States District Court, Eastern District of Texas, Marshall Division (Case No. 2-04CV-211) (DF)

Deposition testimony and expert report: reasonable royalty involving patents directed to hybridelectric powertrain systems.

GTECH Corp. v. Scientific Games International

United States District Court, District of Delaware (Case No. 04-0138) Deposition testimony and expert report: lost profits, reasonable royalty and prejudgment interest involving patents directed to a system and method for distributing lottery tickets.

WEDECO UV Technologies, Inc. v. <u>Calgon Carbon Corp.</u>

United States District Court, District of New Jersey (Case No. 01-924) Deposition testimony and expert report: lost profits, reasonable royalty and prejudgment interest involving patents directed to treatment of potable water with UV light.

Khyber Technologies Corp. v. <u>Casio, Inc; Everex Systems, Inc.; Hewlett-Packard Co.; and</u> Hewlett-Packard Singapore PTE. LTD.

United States District Court, District of Massachusetts (Case No. 99-CV-12468-GAO) Deposition testimony and expert report: reasonable royalty and prejudgment interest involving a patent directed to audio playback for portable electronic devices.

" Air Liquide America, L.P. v. P.H. Glatfelter Co.

United States District Court, Middle District of Pennsylvania (Case No. 1:CV-04-0646) Deposition testimony and expert report: reasonable royalty and prejudgment interest involving patents directed to the use of ozone bleaching of pulp.

Gary J. Colassi v. <u>Cybex International, Inc.</u>

United States District Court, District of Massachusetts (Case No. 02-668-JEL/JGL) Trial and deposition testimony and expert report: reasonable royalty and prejudgment interest involving a patent directed to treadmill support decks.

Medinol Ltd. v. Guidant Corp. and Advanced Cardiovascular Systems, Inc.

United States District Court, Southern District of New York (Case No. 03 C iv.2604 (SAS)) Deposition testimony and expert report: reasonable royalty analysis and prejudgment interest involving patents directed to connectors for coronary and peripheral stents.

 Donner, Inc. v. <u>American Honda Motor Co.</u>; <u>McDavid Plano-Acura</u>, L.P.; and <u>The Beaumont</u> <u>Co.</u>

United States District Court, Eastern District of Texas, Texarkana Division (Case No.F:03-CV-253) Deposition testimony and expert report: reasonable royalty and prejudgment interest involving a patent directed to automobile entertainment systems.

Nonin Medical, Inc. v. <u>BCI, Inc.</u>

United States District Court, Fourth Division of Minnesota (Case No.02-668-JEL/JGL) Deposition testimony and expert report: reasonable royalty, lost profits and prejudgment interest involving patents directed to finger clip pulse oximeters.

- Stryker Trauma S.A. and Howmedica Osteonics Corp. v. Synthes (USA) United States District Court, District of New Jersey (Case No.01-CV 3879 (DMC))
 Deposition testimony and expert report: lost profits, reasonable royalty and prejudgment interest involving a patent directed to snap-fit external fixation systems.
- Michael Foods, Inc. and North Carolina State University v. <u>Rose Acre Farms, Inc.</u> United States District Court, Eastern District of North Carolina Western Division (Case No.5:02-CV-477-H(3))

Deposition testimony and expert report: lost profits, reasonable royalty and prejudgment interest involving patents directed to extended shelf life eggs.

 Waters Technologies Corp.; Waters Investments, Ltd.; Micromass UK Ltd.; and Micromass, Inc. v. <u>Applera Corp.</u>

United States District Court, District of Delaware (Case No.02-1285-GMS) Deposition testimony and expert report: lost profits, price erosion, reasonable royalty and prejudgment interest involving a patent directed to mass spectrometer ionization sources.

- <u>Medtronic Sofamor Danek, Inc.</u> v. Gary K. Michelson, M.D. and Karlin Technology, Inc. United States District Court, Western District of Tennessee (Case No. 01-2373 GV) Trial and deposition testimony and expert report: damages and profits associated with alleged contractual breaches, tortious interference and intentional negligent representations involving spinal implants.
- Riverwood International Corp. v. <u>MeadWestvaco Corp.</u> United States District Court, Northern District of Georgia (Case No.1:03-CV-1672 (TWT)) Deposition testimony and expert report: irreparable harm involving a patent directed to 2x6 beverage cartons.

 Matsushita Electric Industrial Co. Ltd. v. <u>Cinram International, Inc.</u> United States District Court, District of Delaware (Case No.01-882-SLR)
 Deposition testimony and expert report: reasonable royalty and prejudgment interest covering patents directed to aspects of bonding substrates together to form optical discs, such as DVDs.

Ortho-McNeil Pharmaceutical, Inc., et al. v. Mylan Laboratories United States District Court, Northern District of West Virginia (Case No. 1:02CV32) Trial and deposition testimony and expert report: commercial success covering a patent directed to the active ingredient of an anti-infective drug.

- <u>Boehringer Ingelheim Vetmedica, Inc.</u> v. Schering-Plough Corp. and Schering Corp. United States District Court, District of New Jersey (Case No. 96-CV-04047) Trial and deposition testimony and expert report: lost profits, reasonable royalty, price erosion and prejudgment interest involving a patent directed to porcine vaccine (PRRS) products.
- <u>Arris International and Randall A. Holliday</u> v. John Mezzalingua and Associates, Inc. d/b/a PPC

United States District Court, District of Colorado (Case No. 01-WM-2061) Deposition testimony and expert report: reasonable royalty and prejudgment interest involving patents directed to coaxial cable connectors.

 Promega Corp. v. <u>Applera Corp.</u>; and <u>Lifecodes Corp.</u>, and its <u>Subsidiaries Cellmark</u> <u>Diagnostics</u>, <u>Inc.</u>; and <u>Genomics International Corp.</u> United States District Court, Western District of Wisconsin (Case No. 01-C-0244-C) Deposition testimony and expert report: lost profit rate, reasonable royalty and prejudgment interest involving a patent directed to DNA sequencing technology.

Alcon Laboratories, Inc. and Alcon Manufacturing, Ltd. v. Pharmacia Corp.; Pharmacia & Upjohn Co.; and The Trustees of Columbia University in the City of New York United States District Court, Southern District of New York (Case No. 01-Civ.2989 (WHP)) Deposition testimony and expert report: lost profits, reasonable royalty and prejudgment interest involving a patent directed to compositions for treatment of glaucoma.

Pharmacia Corp.; Pharmacia AB; Pharmacia Enterprises S.A.; and Pharmacia & Upjohn Co.
 v. <u>Alcon Laboratories, Inc.</u>

United States District Court, Southern District of New York (Case No. 01-070-SLR) Deposition testimony and expert report: lost profits, reasonable royalty and prejudgment interest involving a patent directed to compositions for treatment of glaucoma.

<u>Takata Corp.</u> v. AlliedSignal, Inc. and Breed Technologies, Inc.

PAGE 80 OF 123

United States District Court, District of Delaware (Case No. 98-94-MMS)

Deposition testimony and expert report: reasonable royalty and prejudgment interest covering patents and trade secrets directed to seatbelt retractors.

Chiron Corp. v. <u>Genentech</u>, Inc.

United States District Court, Eastern District of California (Case No. S-00-1252 WBS GGH) Deposition testimony and expert report: reasonable royalty and prejudgment interest covering a patent directed to the active ingredient in an anti-cancer drug.

Greene, Tweed of Delaware, Inc. v. DuPont Dow Elastomers, LLC

United States District Court, Eastern District of Pennsylvania (Case No. 00-CV-3058) Trial and deposition testimony and expert report: lost profits, reasonable royalty and prejudgment interest involving a patent covering perfluorelastomeric seals used in semiconductor fabrication applications.

Streck Laboratories v. <u>Beckman Coulter, Inc.</u>

United States District Court, District of Nebraska (Case No. 8:99CV473) Deposition testimony and expert report: reasonable royalty and prejudgment interest involving patents covering hematology testing equipment.

Adobe Systems Inc. v. <u>Macromedia</u>, Inc.

United States District Court, District of Delaware (Case No. 00-743-JJF) Trial and deposition testimony and expert report: reasonable royalty involving patents covering computer video and audio software.

Dictaphone Corp. v. Nice Systems, Ltd.

United States District Court, District of Connecticut (Case No. 3:00-CV-1143) Deposition testimony and expert report: lost profits, price/margin erosion, reasonable royalty and prejudgment interest involving patents covering digital logger systems.

Metrologic Instruments, Inc. v. PSC, Inc.

United States District Court, District of New Jersey (Case No. 99-CV-04876) Deposition testimony and expert report: reasonable royalty and prejudgment interest involving patents covering bar code scanning equipment.

Genzyme Corp. v. Atrium Medical Corp.

United States District Court, District of Delaware (Case No.00-958-RRM) Trial testimony and expert report: lost profits and price/margin erosion involving patents covering chest drainage systems.

Norian Corp. v. Stryker Corp.

United States District Court, Northern District of California (Case No. C-01-0016 (WHA)) Trial and deposition testimony and expert report: reasonable royalty and prejudgment interest involving a patent covering bone cement.

John Mezzalingua Associates, Inc., d/b/a PPC v. Antec Corp.

United States District Court, Middle District of Florida (Case No. 3:01-CV-482-J-25 HTS) Deposition testimony and expert report: disgorgement of profits involving a design patent covering a coaxial cable connection.

- <u>Rockwell Automation Technologies, LLC</u> v. Spectra-Physics Lasers, Inc. and Opto Power Corp. United States District Court, District of Delaware (Case No. 00-589-GMS)
 Deposition testimony and expert report: reasonable royalty involving a patent covering a process for producing semiconductor epitaxial films.
- Tanashin Denk Co., Ltd. v. <u>Thomson Consumer Electronics, Inc.</u> United States District Court, Southern Division of Indiana (Case No. IP 99-836-C Y/G)

PAGE 81 OF 123

Trial and deposition testimony and expert report: lost profits, reasonable royalty and prejudgment interest involving patents covering cassette tape drives.

Medtronic Sofamor Danek, Inc. et al. v. Osteotech

United States District Court, Western Division of Tennessee (Case No.99-2656-GV) Deposition testimony and expert report: lost profits, reasonable royalty and prejudgment interest involving patents covering the instruments and method of inserting a spinal inter-body fusion device.

<u>Heimann Systems GmbH</u> v. American Science and Engineering, Inc.

United States District Court, District of Connecticut (Case No. 00 CV 10276 (WGY)) Deposition testimony and expert report: reasonable royalty and prejudgment interest involving a patent directed to mobile X-ray examining apparatus.

 <u>Omega Engineering, Inc.</u> v. Cole-Parmer Instrument Co.; Davis Instrument Manufacturing Co., Inc.; Dwyer Instruments, Inc.; and Raytek Corp.

United States District Court, District of Connecticut (Case Nos.3:98 CV 00733 (JCH), 3:98 CV 02052 (JCH) and 3:98 CV 02276 (JCH))

Trial and deposition testimony and expert report: lost profits, reasonable royalty and prejudgment interest involving patents and alleged unfair competitive practices directed to portable infrared thermometers.

Particle Measuring Systems, Inc. v. Rion Co., Ltd.

United States District Court, District of Colorado (Case No.99-WM-1433) Deposition testimony and expert report: lost profits, reasonable royalty and prejudgment interest involving a patent directed to a device and method for optically detecting particles in fluid.

The University of Colorado Foundation Inc., et al. v. <u>American Cyanamid Co.</u>

United States District Court, District of Colorado (Case No.93-K-1657) Trial and deposition testimony and expert report: measure and amount of prejudgment interest in a patent infringement, fraud and unjust enrichment case covering prenatal vitamin formulations.

Gleason Works v. Oerlikon Geartec AG and Liebherr-America, Inc.

United States District Court, Western District of New York (Case No.98-CV-6275 L) Deposition testimony and expert report: lost profits, reasonable royalty and prejudgment interest involving a patent directed to bevel gear-cutting machines.

Amersham Pharmacia v. <u>PE Corp.</u>

United States District Court, Northern District of California (Case No. C 97-04203-TEH) Deposition testimony and expert report: lost profits, reasonable royalty and prejudgment interest involving a patent directed to a method of using energy transfer reagents in a DNA sequencing system.

Ziarno v. The American Red Cross, et al.

United States District Court, Northern District of Illinois (Case No. 99 CIV 3430) Deposition testimony and expert report: reasonable royalty and prejudgment interest involving a patent directed to online/internet fundraising.

Applied Medical Resources Corp. v. Core Dynamics, Inc.

United States District Court, Central District of California (Case No. SACV 99-748-DOC (ANx)) Trial and deposition testimony and expert report: reasonable royalty and prejudgment interest involving patents directed to surgical trocars. Bell Communications Research, Inc. v. Fore Systems, Inc.United States District Court, District of Delaware (Case No. 98-586 JJF)Deposition testimony and expert report: reasonable royalty and prejudgment interest covering patentsdirected to telecommunications technology (ATM over SONET networks).

Newell Operating Co. (EZ Painter Co.) v. Linzer Products Corp. United States District Court, Eastern District of Wisconsin (Case No. 98-C-0864) Deposition testimony and expert report: reasonable royalty and prejudgment interest covering a patent directed to a method for manufacturing polypropylene paint roller covers.

 Dow Chemical Co. v. Sumitomo Chemical Co., Ltd. and Sumitomo Chemical America, Inc. United States District Court, Eastern District of Michigan (Case No. 96-10330-BC)
 Deposition testimony and expert report: reasonable royalty and prejudgment interest covering a patent directed to a method for manufacturing cresol epoxy novalac resins used in integrated circuit encapsulation.

 <u>Elan Corp., PLC</u> v. Andrx Pharmaceuticals, Inc. United States District Court, Southern District of Florida (Case No. 98-7164) Trial and deposition testimony and expert report: commercial success covering a patent directed to controlled release dosing of a nonsteroid anti-inflammatory drug.

Insight Development Corp. v. <u>Hewlett-Packard Co.</u> United States District Court, Northern District of California (Case No. C 98 3349 CW) Deposition testimony and expert report: damages and profits associated with alleged contract breaches, patent, copyright and trade secret misappropriation/infringement and unfair competition involving digital image processing and transmission, including that over the internet.

 <u>Bristol-Myers Squibb Co.</u> v. Rhone-Poulenc Rorer Inc. and Centre National De La Recherche Scientifique

United States District Court, Southern District of New York (Case No. 95 Civ. 8833) Deposition testimony and expert report: reasonable royalty covering a patent directed to semisynthetic processes for manufacturing an anti-cancer drug.

Pactiv Corp. v. S.C. Johnson & Son, Inc.

United States District Court, Northern District of Illinois (Case No. 98 C 2679) Deposition testimony and expert report: lost profits, reasonable royalty and prejudgment interest involving a patent directed to zipper closure mechanisms for home storage bags.

Dr. Harry Gaus v. <u>Conair Corp.</u>

United States District Court, Southern District of New York (Case No. 94-5693 (KTD) (FM)) Trial and deposition testimony and expert report: reasonable royalty and prejudgment interest covering a patent directed to hazard prevention devices used with electrical hair dryers.

Neogen Corp. v. Vicam, L.P., et al.

United States District Court, Middle District of Florida (Case No. 97-405-CIV-T-23B) Deposition testimony and expert report: lost profits, reasonable royalty and prejudgment interest covering a patent and a variety of tort claims directed to aflatoxin testing equipment.

Surety v. Entrust

United States District Court, Eastern District of Virginia (Case No. 99-203-A) Deposition testimony and expert report: lost profits, reasonable royalty and prejudgment interest covering a patent directed to digital time stamping.

PAGE 83 OF 123

Sofamor Danek Holdings, Inc., et al. v. United States Surgical Corp., et al.

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Molten Metal Equipment Innovation, Inc. v. <u>Metaullics</u>

United States District Court, Northern District of Ohio (1:97-CV2244) Trial testimony and expert report: lost profits, reasonable royalty and prejudgment interest covering a patent directed to submersible molten metal pumps.

AcroMed Corp. v. Sofamor Danek Group, Inc.

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BIC Corp. v. Thai Merry Co., Ltd.

United States District Court, Central District of California (Case No. 98 CIV. 2113 (DLC)) Deposition testimony and expert report: lost profits, reasonable royalty and prejudgment interest involving a patent directed to disposable cigarette lighters.

Syncsort Inc. v. <u>Michael Wagner; Cambridge Algorithm; ICF Kaiser Intl. Inc., et al.</u> United States District Court, Northern District of Georgia (Case No. 1:93-CV-2247-JEC) Deposition testimony and expert report: reasonable royalty and prejudgment interest involving a patent directed to data sorting software.

Shell Oil Co. v. ICI Americas, Inc. and P.E.T Processors, LLC

United States District Court, Eastern District of Louisiana (Case No. 97-3526 Section "K") Deposition testimony and expert report: lost profits and reasonable royalty involving a patent directed to a process to manufacture solid stated polyethylene naphthalene.

Pall Corp. v. <u>Hemasure Inc.</u> and Lydall, Inc.

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Deposition testimony and expert report: lost profits, reasonable royalty and prejudgment interest involving patents directed to prestorage leukodepletion devices.

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Deposition testimony and expert report: reasonable royalty and prejudgment interest involving patents directed to semiconductor technology.

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 Deposition testimony and expert report: reasonable royalty and prejudgment interest involving patents directed to various aspects of cathode ray tubes. <u>Stairmaster Sports/Medical Products, a Limited Partnership</u> v. Groupe Procycle, Inc. and Procycle USA, Inc.

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BTG v. <u>Magellan Corp.</u>; BTG v. Trimble Navigation

United States District Court, Eastern District of Pennsylvania (Case No. 96-CV-7551/Case No. 96-CV-5084 (HB))

Deposition testimony and expert reports: reasonable royalty, prejudgment interest, value of inventory on hand, preparation and investments made and business commenced (as of patent reissuance) involving a patent directed to secret or secure communications technology employed in global positioning system products.

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United States District Court, District of Colorado (Case No. 88-Z-499) Trial and deposition testimony and expert report: lost profits, price erosion, reasonable royalty and prejudgment interest involving a patent directed to feed additive weigh/mix dispensing machines.

- Thai Merry Co., Ltd.; Honson Marketing Group, Inc.; and Calico Brands, Inc. v. <u>BIC Corp.</u> United States District Court, Central District of California (Case No. 96-5256 WJR (BQRx))
 Deposition testimony and expert report: lost profits, reasonable royalty and prejudgment interest involving patents directed to child-resistant disposable cigarette lighters.
- Radco, Inc. v. Shell Oil Co.; Foster Wheeler USA Corp.; Lyondell-Citgo Refining Co., LLC; Petro-Chem Development Co. Inc.; and Marathon Oil Co.

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United States District Court, Western District of Wisconsin (Case No. 96-C-0087-C) Trial testimony and expert report: lost profits, reasonable royalty and prejudgment interest involving patents directed to the dryer section of paper making machines.

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Trial and deposition testimony and expert report: lost profits, reasonable royalty and prejudgment interest over a patent directed to three wheel motorized scooter technology.

<u>Bauer Inc.</u> v. Rollerblade, Inc.

United States District Court, Eastern District of Virginia (Case No. 96-952-A) Deposition testimony and expert report: lost profits, reasonable royalty and prejudgment interest involving a patent directed to a hybrid stitched and molded skate boot design.

- Mettler Toledo A.G. v. <u>Denver Instrument Co., et al.</u> United States District Court, Eastern District of Virginia (Case No. 95-1055-A) Deposition testimony and expert report: lost profits, reasonable royalty and prejudgment interest involving patents directed to analytical and precision balances.
- Bristol-Myers Squibb Co. v. Abbott Laboratories

PAGE 85 OF 123

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Crown Equipment Corp. v. The Raymond Corp.

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 Travelers Express Co. Inc. v. <u>The Standard Register Co.</u> United States District Court, District of Minnesota (Case No. 4-93-436)
 Deposition testimony and expert report: lost profits, reasonable royalty, patent misuse and prejudgment interest involving patents directed to money order dispensers.

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Trade Secret Cases

 In the Matter of Certain Sulfentrazone, Sulfentrazone Compositions, and Processes for Making Sulfentrazone (<u>FMC</u> (Complainant))

United States International Trade Commission (Investigation No. 337-TA-914) Trial and deposition testimony and expert report: irreparable harm, balance of hardships, and public interest involving a patent directed to a crop herbicide.

 In the Matter of Certain Opaque Polymers (Organik Kimya (Respondent)) United States International Trade Commission (Investigation No.337-TA-883)
 Deposition testimony and expert report: injury, independent economic valuation, and bond involving trade secrets used in the production of opaque polymers.

 <u>MacDermid, Inc.</u> v. Cookson Group, plc, Cookson Electronics, Enthone, Inc., and David North United States Superior Court, Judicial District of Waterbury (Case No.x10-cv-09-5014518-d) Deposition testimony and expert report: royalty and prejudgment interest involving the misappropriation of trade secrets directed to chemicals, materials, and technical services used in a possible corporate acquisition.

 JDS Therapeutics, LLC and Nutrition 21, LLC v. <u>Pfizer Inc., Wyeth LLC, Wyeth Consumer Healthcare Ltd., and Wyeth Consumer Healthcare LLC</u> United States District Court, Southern District of New York (Case No.1:12-cv-09002-JSR)
 Deposition testimony and expert report: commercial success, reasonable royalty, and unjust enrichment involving patents and trade secrets directed to the use of chromium picolinate in multivitamins.

- <u>E. I. du Pont de Nemours and Company</u> v. Kolon Industries, Inc. and Kolon USA, Inc. United States District Court, Eastern District of Virginia, Richmond Division (Case No. 3:09CV58) Trial and deposition testimony and expert report: unjust enrichment involving misappropriation of trade secrets directed to aramid fiber production.
- <u>CA</u>, Inc.; Computer Associates Think, Inc.; Platinum Technology International. Inc.; and Platinum Technology IP, Inc., v. Rocket Software, Inc.

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Sensormatic Electronics Corp. v. The TAG Co. US LLC; Phenix Label Co.; Dennis Gadonniex United States District Court, Southern District of Florida (Case No.06-81105-Civ-Hurley/Hopkins) Trial and deposition testimony and expert report: unjust enrichment involving misappropriation of trade secrets directed to loss prevention systems.

<u>Cogent Systems, Inc.</u> v. Northrop Grumman Corp. California Superior Court, County of Los Angeles, Central District (Case No.BC332199) Deposition testimony and expert report: reasonable royalty involving misappropriation of trade secrets directed to fingerprint identification technology.

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Connecticut Superior Court, District of Middlesex at Middleton (Case No.MMX-CV-05-4004477 S) Deposition testimony and expert disclosure: reasonable royalty involving misappropriation of trade secrets directed to leach field and septic tank technology.

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California Superior Court, County of Los Angeles (Case No. BC317277) Deposition testimony: damages and profits associated with trade secrets directed to a luxury hotel and automotive partnership.

Christopher Karol and Karol Designs, LLC v. Burton Corp.

United States District Court, District of Vermont (Case No. 1:01-CV-178) Deposition testimony and expert report: reasonable royalty and disgorgement of profits involving trade secrets and an NDA directed to snowboard boot and binding technology.

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United States District Court, District of Delaware (Case No. 98-94-MMS) Deposition testimony and expert report: reasonable royalty and prejudgment interest covering patents and trade secrets directed to seatbelt retractors.

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United States District Court, Eastern District of Virginia (Case No.CA00-245-A) Trial and deposition testimony and expert report: damages and profits associated with alleged breach of contract and misappropriation of trade secrets involving metallized particle interconnects used to connect microprocessors with mother boards.

Insight Development Corp. v. <u>Hewlett-Packard Co.</u>

United States District Court, Northern District of California (Case No. C 98 3349 CW) Deposition testimony and expert report: damages and profits associated with alleged contract breaches, patent, copyright and trade secret misappropriation/infringement and unfair competition involving digital image processing and transmission, including that over the internet.

PAGE 87 OF 123

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<u>DSC Communications Corp.</u> v. DGI Technologies, Inc.

United States District Court, Northern District of Texas (Case No. 3:94-CV-1047) Trial testimony and expert report: reasonable royalty involving copyrights, trade secrets and unfair competition over telecommunications switching equipment.

 <u>Wayne State University; Lumigen Inc.; and A. Paul Schapp</u> v. Irena Bronstein and Tropix Inc. State of Michigan Circuit Court, County of Wayne and Court of Claims (Case No. 88-804-627 CK/Case No. 88-11871CM)

Deposition testimony and expert report: unjust enrichment and lost profits involving trade secrets directed to chemiluminescence (medical detection) technology.

Trademark Cases

 Katherine Dines v. <u>Toys "R" Us-Delaware, Inc.</u> United States District Court, District of Colorado (Case No. 12-cv-2279-PAB-KMT)

Deposition testimony and expert report: profits and prejudgment interest associated with trademark infringement involving a line of stuffed animal toys.

<u>The Coryn Group II, LLC</u> v. O.C. Seacrets, Inc.

United States District Court, District of Maryland, Northern Division (Case No. 08-cv-02764-WDQ) Trial testimony and expert report: profits and damages involving the use of "Secrets" trademark in the leisure resort business.

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American Arbitration Association (Case No. 13 133 01389 08) Arbitration testimony and expert report: damages associated with alleged breach of contract and trademark infringement involving cosmetics, fragrances and beauty products.

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United States District Court, District of Massachusetts (Case No. 07-CA-10071 RCL) Trial and deposition testimony and expert report: damages and profits associated with a trademark directed to guitar transducers.

ISP.NET, LLC d/b/a IQuest Internet v. Qwest Communications International, Inc.

United States District Court, Southern District of Indiana, Indianapolis Division (Case No.IP01-0480 C B/S)

Deposition testimony and expert report: reasonable royalty, disgorgement of profits and prejudgment interest involving a trademark directed to internet service provision.

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United States District Court, Western District of Washington at Tacoma (Case No. CO5 5366 KJB)) Deposition testimony and expert report: economic harm involving a trademark directed to sports apparel logos.

Alpha International, Inc. v. <u>General Foam Plastics Corp.</u>

United States District Court, Eastern District of North Carolina (Case No. 4:01-CV-142-H(3)) Deposition testimony and expert report: copyright infringement, trademark infringement, conversion and unjust enrichment involving bowling pin sets and ride-on toys.

 Fuel TV, Inc. v. Fuel Clothing Co., Inc. United States District Court, Central District of California, Western Division (Case No.CV03-8248-ABC-VBKx)
 Deposition testimony and expert report: economic harm involving infringement of trademark used in

Deposition testimony and expert report: economic harm involving infringement of trademark used in extreme sports applications.

<u>AutoNation, Inc.</u> v. Acme Commercial Corp., et al. (CarMax)

PAGE 88 OF 123

United States District Court, Southern District of Florida (Case No. 96-6141) Trial and deposition testimony and expert report: reasonable royalty associated with trademark infringement and unfair competition in the auto superstore business.

Copyright Cases

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United States District Court for the District of Columbia (Case No. 13-cv-01215-TSC) Deposition testimony and expert report: harm and public interest involving copyrights and trademarks covering standards incorporated by reference into law.

- <u>Complex Systems, Inc.</u> v. ABN AMRO Bank N.V. United States District Court, Southern District of New York (Case No. 08-cv-7497) Deposition testimony and expert report: revenues and profits involving copyrighted trade finance software.
- <u>Shepard Fairey and Obey Giant Art, Inc.</u> v. The Associated Press v. Shepard Fairey; Obey Giant Art, Inc.; Obey Giant LLC; Studio Number One, Inc.; and One 3 Two, Inc. United States District Court, Southern District of New York (Case No. 09-01123(AKH))
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- <u>Bayer CropScience AG and Bayer CropScience NV</u> v. Dow AgroSciences LLC, Mycogen Plant Science Inc., Agrigenetics, Inc. d/b/a Mycogen Seeds LLC, and Phytogen Seed Company, LLC International Chamber of Commerce (Case No. 18892/VRO /AGF) Arbitration testimony and expert report: damages associated with alleged breach of contract and patent infringement involving genetically modified seed.
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Arbitration hearing and expert report: diminution of value associated with the delayed/failed development of a monoclonal antibody drug to treat various autoimmune diseases.

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United States District Court, District of Massachusetts (Case No. 2009-11116-PBS) Deposition testimony and expert report: damages and profits associated with contracts covering the transfer and sharing of RNAi technology.

YSL Beauté v. Oscar de la Renta, Ltd.

PAGE 90 OF 123

American Arbitration Association (Case No. 13 133 01389 08)

Arbitration testimony and expert report: damages associated with alleged breach of contract and trademark infringement involving cosmetics, fragrances and beauty products.

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CPR Institute for Dispute Resolution

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- <u>Medtronic Sofamor Danek, Inc.</u> v. Gary K. Michelson, M.D. and Karlin Technology, Inc. United States District Court, Western District of Tennessee (Case No. 01-2373 GV) Trial and deposition testimony and expert report: damages and profits associated with alleged contractual breaches, tortious interference and intentional negligent representations involving spinal implants.
- Honeywell International, Inc. and GEM Microelectronic Materials LLC v. <u>Air Products and</u> <u>Chemicals, Inc. and Ashland, Inc.</u>

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 Deposition testimony: lost profits and lost licensing fees involving contracts to develop interactive/return path communications.

PAGE 91 OF 123

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Kabushiki Kaisha Izumi Seiko Seiskusho v. Windmere Corp. et al.

United States District Court, Southern District of Florida (Case No, 94-0803-CIV-MOORE) Deposition testimony and expert declaration: lost revenues and lost profits in a breach of contract, fraud and antitrust case involving rotary shavers.

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- Rambus Inc., v. <u>Micron Technology, Inc.</u> California Superior Court, County of San Francisco (Case No. 04-431105) Deposition testimony and expert report: lost revenues and profits associated with alleged antitrust violations related to DRAM technology.
- ETEX Corp. v. <u>Medtronic, Inc.</u>; <u>Medtronic International Limited</u>; and <u>Medtronic Sofamor</u> <u>Danek, Inc.</u>

PAGE 92 OF 123

CPR Institute for Dispute Resolution

Arbitration and deposition testimony and expert report: lost revenues and profits associated with alleged contractual breaches and antitrust violations involving spinal implant materials.

Kabushiki Kaisha Izumi Seiko Seiskusho v. Windmere Corp. et al.

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 Deposition testimony and expert report: lost profits, reasonable royalty, patent misuse and prejudgment interest involving patents directed to money order dispensers.

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- The Osage Tribe of Indians of Oklahoma v. <u>The United States of America</u> United States Court of Federal Claims (Case No. 99-550 L (into which is consolidated No. 00-169L))
 Deposition testimony and expert declaration: present value interest from unpaid oil royalties.

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Bavarian Nordic A/S and Anton Mayr v. Acambis, Inc.

and unjust enrichment involving bowling pin sets and ride-on toys.

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- <u>Medtronic Sofamor Danek, Inc. v. Gary K. Michelson, M.D. and Karlin Technology, Inc.</u> United States District Court, Western District of Tennessee (Case No. 01-2373 GV) Trial and deposition testimony and expert report: damages and profits associated with alleged contractual breaches, tortious interference and intentional negligent representations involving spinal implants.

PAGE 93 OF 123

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 Deposition testimony: lost profits and lost licensing fees involving contracts to develop interactive/return path communications.
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 United States District Court District of Connecticut (Case Non 3:08 CV 00733 (ICH) 3:08 CV

United States District Court, District of Connecticut (Case Nos.3:98 CV 00733 (JCH), 3:98 CV 02052 (JCH) and 3:98 CV 02276 (JCH))

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United States District Court, District of Colorado (Case No.93-K-1657) Trial and deposition testimony and expert report: measure and amount of prejudgment interest in a patent infringement, fraud and unjust enrichment case covering prenatal vitamin formulations.

 <u>Hunter Group, Incorporated</u> v. Susan Smith, et al. United States District Court, District of Maryland (Case No. 97-2218) Trial and deposition testimony and expert report: lost enterprise value and lost profits associated with improper solicitation of enterprise resource planning software trainers.

- William Aramony v. United Way of America et al. United States District Court, Southern District of New York (Case No. 96 Civ. 3962 (SAS)) Trial testimony and expert report: lost contributions and out-of-pocket losses surrounding the departure of United Way of America president.
- Fox v. Fox

State of Virginia, Circuit Court, Arlington County (Chancery No. 96-80) Trial testimony (proffered) and expert report: prospective valuation of a patent portfolio involving lasers used for lithotripsy and angioplasty.

<u>AutoNation, Inc.</u> v. Acme Commercial Corp., et al. (CarMax) United States District Court, Southern District of Florida (Case No. 96-6141)

Trial and deposition testimony and expert report: reasonable royalty associated with trademark infringement and unfair competition in the auto superstore business.

International Trade Cases

 In the Matter of Certain 3G Mobile Handsets and Components Thereof (Nokia (Respondent)) (International Trade Commission Inv. No. 337-TA-613)
 Trial and deposition testimony and expert report: economic evaluation of whether proposed license terms for certain wireless devices are discriminatory under a FRAND obligation and economic evaluation of hold-up and reverse hold-up.

PAGE 94 OF 123

 In the Matter of Certain Sulfentrazone, Sulfentrazone Compositions, and Processes for Making Sulfentrazone (<u>FMC</u> (Complainant))

United States International Trade Commission (Investigation No. 337-TA-914) Trial and deposition testimony and expert report: irreparable harm, balance of hardships, and public interest involving a patent directed to a crop herbicide.

 In the Matter of Certain Opaque Polymers (Organik Kimya (Respondent)) United States International Trade Commission (Investigation No.337-TA-883)
 Deposition testimony and expert report: injury, independent economic valuation, and bond involving trade secrets used in the production of opaque polymers.

 In the Matter of Certain Wireless Devices with 3G and/or 4G Capabilities and Components Thereof (Nokia (Respondent))

United States International Trade Commission (Investigation No.337-TA-868) Trial and deposition testimony and expert report: economic evaluation of whether proposed license terms for certain wireless devices are discriminatory under a FRAND obligation, and economic evaluation of hold-up and reverse hold-up.

 In the Matter of Certain Wireless Devices with 3G Capabilities and Components Thereof (Nokia (Respondent))

United States International Trade Commission (Investigation No.337-TA-800) Trial and deposition testimony and expert report: economic evaluation of whether proposed license terms for certain wireless devices are discriminatory under a FRAND obligation.

- In the Matter of Certain Computing Devices with Associated Instruction Sets and Software (<u>VIA Technologies, Inc., Centaur Technology, IP-First LLC</u> (Complainants)) United States International Trade Commission (Investigation No.337-TA-812) Trial and deposition testimony and expert report: economic evaluation of domestic industry issues associated with importation of certain computing devices.
- In the Matter of Certain Modified Vaccinia Ankara ("MVA") Viruses and Vaccines and Pharmaceutical Compositions Based Thereon (<u>Bavarian Nordic A/S</u> (Complainant)) United States International Trade Commission (Investigation No. 337-TA-550)
 Deposition testimony and expert report: domestic industry and injury involving patents and proprietary technology directed to vaccines.

Malpractice Cases

- <u>TattleTale Portable Alarm Systems, Inc.</u> v. Calfee, Halter & Griswold LLP, et al. United States District Court, Southern District of Ohio, Eastern Division (Case No. 2:10-CV-226) Deposition testimony and expert report: lost royalties associated with a law firm's negligence in handling a patent directed to portable alarm systems.
- Timothy Robinson and Whorl, LLC v. <u>Cohen Mohr, LLP; Dan Duval; Perkins Coie, LLP;</u> <u>Perkins Coie, I.,P.C.; Perkins Coie, D.C.P.C.; and Perkins Coie, California, P.C.</u> *State of Virginia, Circuit Court of Fairfax County (Case No. CL-2009-080)* Deposition testimony and expert report: lost value and prejudgment interest involving allegations of law firm's negligence in securing an interest in intellectual property directed to biometric payment technology.
- Frank Robertson and Cayvon, Inc. v. <u>Nexsen Pruet Jacobs & Pollard, LLP</u> South Carolina Common Pleas Court, Fifth Judicial Circuit, Richland (Case No. 2004-CP-40-5531) Deposition testimony: lost profits associated with a law firm's negligence in handling a patent directed to commercial nut-cracking machines.

Anodyne Corp. v. Klaas, Law, O'Meara & Malkin

PAGE 95 OF 123

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PAGE 96 OF 123

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- "Commercial Success at the PTAB," Strafford Publications CLE Webinar, August 2015 (with Michael Flibbert and Maureen Queler).
- "Patent Damages Developments in the US," International Intellectual Property Law Association Global IP Summit, July 2015 (with Iain Connor and Ronald Courtney).
- "WG9 Panel: Development of a Preliminary Compensatory Damages Contentions (PCDCs) Process, Including the Drafting of Local Patent Damages Rules," The Sedona Conference WG9 and WG10 Joint Midyear Meeting, May 2015 (with Marta Beckwith, Cathy Bissoon, Melissa Finocchio, Andrea Weiss Jeffries, and James Morando).
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PAGE 98 OF 123

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- "Ingredients of a Damages Study," Law Seminars International, Calculating and Proving Patent Damages, October 2004.
- "Current Topics in Technology Valuation," Association of University Technology Managers Annual Meeting (Educational Track ED1), March 2004.
- "Creative Thinking on Remedies," Law Seminars International, Trademarks Transactions and Litigation Workshop, July 2003.
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- "Use of the 25% Rule in Valuing Intellectual Property," Center for Continuing Education, Santa Clara, California, December 1999.
- "Extracting Value from Intellectual Assets: Valuation," INTX Seminar -- On the Frontier of Intellectual Asset Management: The Strategic Management of Intellectual Assets, November 1999.
- "Internet Patents Monetary Remedies," American Intellectual Property Law Association Mid-winter Meeting – IP Law in Cyberspace, February 1999 (with R. Jeffrey Malinak).
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PAGE 99 OF 123

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- "Damages in Patent and Trademark Infringement," Joint American Society of Appraisers and Canadian Institute of Chartered Business Valuators meeting, November 1994.

OPHTHALMIC NSAIDS TOTAL SALES UNITED STATES

	- P		2005	- 598.0	26	. 200	0	26.35		200	/	
		Q2	Q3	Q4	QI	Q2	Q3	Q4	QI	Q2	Q3	Q4
Bromfenac Sodium Xibrom® Bromday® Prolensa® Bromfenac Sodium		\$572	\$1,331	\$2,094	\$3,304	\$5,083	\$5,602	\$6,875	\$7,673	\$9,717	\$10,687	\$11,693
Diclofense Sodium Valtaren® Diclofense Sodium		\$5,238 \$5	\$4,843 \$10	\$3,910 \$3	\$3,423	\$3,617	\$3,368	\$3,223	\$3,541	\$3,532	\$3,217	\$2,913
Flurbiprofen Sodium Ocufen® Flurbiprofen Sodium		\$73 \$603	\$66 \$579	\$60 \$584	\$59 \$567	\$56 \$586	\$52 \$536	\$46 \$564	\$44 \$511	\$45 \$552	\$35 \$523	\$34 \$52
Ketorolac Tronseth Acular® Acular LS30 Acular PF® Acuvaï@ Ketorolac Trometh		\$15,825 \$9,178 \$340	\$13,673 \$10,103 \$293	\$11,532 \$8,957 \$260	\$10,934 \$9,042 \$148	\$12,921 \$10,538 \$244	\$11,104 \$11,186 \$215	\$9,706 \$12,194 \$233	\$10,165 \$13,315 \$242	\$11,866 \$15,403 \$248	\$10,750 \$15,919 \$248	\$9,57 \$15,58; \$22;
Nepslenac Nevanac% Revro®			\$616	\$5,570	\$6,634	\$7,545	\$7,419	\$7,672	\$7,831	\$8,992	\$9,638	\$10,61;
Total	2 2	\$31,833	\$31,513	\$32,970	\$34,111	\$40,588	\$39,482	\$40,512	\$43.322	\$50,356	\$51,017	\$51,15
Total (Excluding Flurbiprofen Sodium products and Acular PF®)		\$30,818	\$30,575	\$32,066	\$33,337	\$39,703	\$38,679	\$39,670	\$42,524	\$49,511	\$50,211	\$50,37
Total Xibrom®/Bromday®/Prolensa®		\$572	\$1,331	\$2,094	\$3,304	\$5,083	\$5,602	\$6,875	\$7,673	\$9,717	\$10,687	\$11,69
		200	8			200	0			201	0	
	Q!	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4
Bromfenae Sodium Xibrom& Bromday® Prolensa® Bromfenae Sodium	\$12,606	\$14,726	\$15,529	\$17,337	\$19,769	\$22,691	\$23,538	\$24,348	\$25,711	\$30,111	\$32,673	\$34,10 \$2,00
Diclofenac Sodium												
Voltaren® Dielofenae Sodium	\$1,532 \$623	\$931 \$606	\$594 \$587	\$444 \$511	\$398 \$552	\$344 \$596	\$186 \$666	\$117 \$631	\$99 \$772	\$90 \$599	\$64 \$612	
												\$63 \$2
Diclofenae Sodium Flurbiprofen Sodium Ocufen®	\$623 \$31	\$606 \$26	\$587 \$27	\$511 \$23	\$552 \$26	\$596 \$22	\$666 \$21	\$631 \$19	\$772 \$19	\$599 \$20	\$612 \$18	\$63 \$2 \$49 \$85 \$92 \$3,74
Diolofenac Sodium Flurbiprofan Sodium Ocufan@ Flurbiprofan Sodium Kelorolac Trameth Acular® Acular LS% Acular PF® Acuvai® Kelorolac Trometh	\$623 \$31 \$495 \$9,729 \$15,594	\$606 \$26 \$525 \$11,512 \$17,868	\$587 \$27 \$510 \$10,534 \$17,905	\$511 \$23 \$491 \$9,696 \$17,888	\$552 \$26 \$506 \$10,626 \$20,849	\$596 \$22 \$503 \$12,826 \$23,031	\$666 \$21 \$506 \$12,318 \$21,650 \$199	\$631 \$19 \$488 \$7,015 \$9,755 \$15 \$13,692	\$772 \$19 \$458 \$1,914 \$1,485 \$2 \$11,407	\$399 \$20 \$488 \$1,384 \$1,050 \$0 \$5,723	\$612 \$18 \$482 \$1,067 \$953 \$0 \$5,251	\$63 \$2 \$49 \$85 \$92 \$3,74 \$2,83
Dielofenac Sodium Flurbiprofen Sodium Ocufen® Flurbiprofen Sodium Ketorolac Trometh Acular® Acular® Acular® Acuvail® Ketorolac Trometh Nepafenac Nevanac®	\$623 \$31 \$495 \$9,729 \$15,594 \$248	\$606 \$26 \$525 \$11,512 \$17,868 \$262	\$587 \$27 \$510 \$10,534 \$17,905 \$261	\$511 \$23 \$491 \$9,696 \$17,888 \$245	\$552 \$26 \$506 \$10,626 \$20,849 \$289	\$596 \$22 \$503 \$12,826 \$23,031 \$331	\$666 \$21 \$506 \$12,318 \$21,630 \$199 \$1,556	\$631 \$19 \$488 \$7,015 \$9,755 \$15 \$13,692 \$2,316	\$772 \$19 \$458 \$1,914 \$1,485 \$2 \$11,407 \$2,371	\$599 \$20 \$488 \$1,384 \$1,050 \$0 \$5,723 \$2,758	\$612 \$18 \$482 \$1,067 \$953 \$0 \$5,251 \$2,738	\$55 \$63- \$2 \$499 \$3,74 \$2,83 \$22,94; \$68,61
Dielofenac Sodium Flurbiprofen Sodium Ocufen® Flurbiprofen Sodium Kelorolac Trometh Acular® Acular® Acular LS® Acuvail® Ketorolac Trometh Nepafenac Netvanac® Ilevro®	\$623 \$31 \$495 \$9,729 \$15,594 \$248 \$10,691	\$606 \$226 \$525 \$11,512 \$17,868 \$262 \$12,564	\$587 \$27 \$510 \$10,534 \$17,905 \$261 \$12,847	\$511 \$23 \$491 \$9,696 \$17,888 \$245 \$11,392	\$552 \$26 \$506 \$10,626 \$20,849 \$289 \$12,926	\$596 \$22 \$503 \$12,826 \$23,031 \$331 \$14,547	\$666 \$21 \$506 \$12,318 \$21,650 \$199 \$1,556 \$15,729	\$631 \$19 \$488 \$7,015 \$9,755 \$15 \$13,692 \$2,316 \$16,723	\$772 \$19 \$458 \$1,914 \$1,485 \$2 \$11,407 \$2,371 \$17,815	\$599 \$20 \$488 \$1,384 \$1,050 \$0 \$5,723 \$2,758 \$20,506	\$612 \$18 \$482 \$1,067 \$953 \$0 \$5,251 \$2,738 \$20,633	\$63- \$2 \$49- \$85: \$92: \$3,74 \$2,83- \$22,94

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OPHTHALMIC NSAIDS TOTAL SALES UNITED STATES

		201				2013				2013		
Deve Constant	Q1	Q2	Q3	Q4	QI -	Q2	Q3	Q4	QI	Q2	Q3	Q4
Bromfenae Sodium Xibrom® Bromday®	\$20,408 \$10;705	\$7,706 \$16,208	\$199 \$21,107	\$57 \$28,003	\$9 \$28,582	\$1 \$29,561	\$3 \$29,045	\$3 \$29,046	\$27,904	\$23,785	\$8,681	\$26
Prolensa@ Bromfenae Sodium		\$3,753	\$4,042	\$4,954	\$5,278	\$5,651	\$5,246	\$5,397	\$5,968	\$4,786 \$6,623	\$16,492 \$5,767	\$23,02 \$6,70
Dielofenac Sodium	\$56	\$49	\$35	\$32	\$11	\$2	50	\$0				
Voltaren® Diclofanac Sodium	\$673	\$792	\$35 \$748	\$802	\$728	\$750	\$777	\$723	\$701	\$757	\$740	\$72
Flurbiprofen Sodium												
Oculen®	\$15	\$16	\$16	\$18	\$22	\$23	\$18	\$18	\$17	\$11	\$14	\$
Flurbiprofen Sodium	\$470	\$520	\$465	\$475	\$455	\$477	\$468	\$461	\$439	\$483	\$490	\$41
Ketorolac Trometh Acular®	\$838	\$724	\$739	\$547	\$496	\$474	\$453	\$388	\$441	\$432	\$418	\$3.
Acular LS®	\$821	\$704	\$613	\$431	\$421	\$352	\$359	\$299	\$285	\$247	\$209	\$4
Acular PF® Acuvail®	E2 045	P2 2/2	\$2,117	\$1,859	\$1,690	\$1,013	\$933	\$990	\$1,023	\$897	\$848	\$8
Kelorola: Trometh	\$2,945 \$2,923	\$2,265 \$3.672	\$3,442	\$3,621	\$3,292	\$3,464	\$3,834	\$3,396	\$3,265	\$3,669	\$3,583	\$3,41
Nepalenac								assessore in				
Nevanac® llevro®	\$24,005	\$24,796	\$24,340	\$26,421	\$27,685	\$29,605	\$33,368	\$35,547	\$35,040 \$962	\$33,652 \$2,695	\$27,882 \$9,288	\$23,0 \$14,8
Total	\$63.861	\$61,205	\$\$7,863	\$67,219	\$68,670	\$71,371	\$74,504	\$76,269	\$76,045	\$78,037	\$74,413	\$74.1
Total (Excluding Flurbiprofen Sodium	10.0° 5 10.00 1	B10 (10)			000 100	870 874	674 010	076 700	877 790	677 647	P72 000	\$73,6
products and Acular PF®)	\$63,375	\$60,669	\$57,382	\$66,727	\$68,193	\$70,871	\$74,018 \$29,048	\$75,789 \$29,048	\$75,589 \$27,904	\$77,543 \$28,572	\$73,909 \$25,173	\$23,2
Total Xibrom/®/Bromday®/Prolensa®	\$31,113	\$23,914	\$21,306	\$28,060	\$28,592	\$29,561	329,048	329,048	327,904	328,312	323,173	313,21
		201			01	2015	03	2013 Q2 -				
Bromfenac Sodium	<u>QI</u>	Q2	Q3	Q4	Q1	Q2	Q3	2015 Q3				
Xibrom %												
Bromday® Prolensa®	\$26 \$25,751	\$10 \$28,456	\$2 \$28,667	\$28,473	\$29,713	\$30,360	\$1 \$31,181	\$32,769 \$246,902				
Bromfenac Sodium	\$8,072	\$6,470	\$5,552	\$5,741	\$4,502	\$4,421	\$3,743	\$57,592				
Diclofenac Sodium												
Voltaren%	P(1);	\$650	\$616	\$602	\$591	\$610	\$799	\$6,722				
Diclofenac Sodium	\$635	2020	3010	3002	3391	2010	2/77	30,122				
Flurbiprofen Sodium Ocufen®	\$11	\$12	\$13	\$10	\$12	\$13	\$17	\$127				
Flurbiprofen Sodium	\$464	\$459	\$457	\$450	\$471	\$502	\$473	\$4,730				
Ketorolae Trometh						80.02						
	\$425	\$401	\$288	\$343 \$316	\$390 \$303	\$293 \$271	\$278 \$335	\$3,623 \$3,694				
Acutar®		SAAO	\$456				6.2.2.4	mo ³ no a				
Acular LS® Acular PF®	\$648	\$449	\$ 456									
Acular LS® Acular PF® Acuvail®	\$648 \$781	\$701	\$649	\$605	\$570	\$524	\$511	\$6,889				
Acular LS& Acular PF⊕ Acuvail® Ketorolac Trometh	\$648					\$524 \$7,884	\$511 \$7,391	\$6,889 \$55,108				
Acular LS® Acular PF® Acuvail®	\$648 \$781	\$701	\$649	\$605	\$570							
Acular LS® Acular PF® Acuvail® Ketorolac Trometh Nepafisnae	\$648 \$781 \$4,451	\$701 \$5,153	\$649 \$5,880	\$605 \$6,344	\$570 \$7,269	\$7,884	\$7,391	\$55,108				
Acular LS.® Acular PF® Acuvai@ Ketorolac Trometh Nepafenac Nevanac® Ilevro®	\$648 \$781 \$4,451 \$19,443	\$701 \$5,153 \$17,287	\$649 \$5,880 \$16,681	\$605 \$6,344 \$15,197	\$570 \$7,269 \$12,975	\$7,884 \$12,832	\$7,391 \$11,581	\$55,108 \$190,548				
Acular LS® Acutar PF® Acuvai® Ketorolac Trometh Nepafenac Nevanac® Itevro® Total Total (Excluding Flurbiprofen Sodium	\$648 \$781 \$4,451 \$19,443 \$19,826 \$80,532	\$701 \$5,153 \$17,287 \$25,243 \$85,290	\$649 \$5,880 \$16,681 \$29,663 \$88,924	\$605 \$6,344 \$15,197 \$33,143 \$91,225	\$570 \$7,269 \$12,975 \$33,390 \$90,187	\$7,884 \$12,832 \$39,320 \$97,030	\$7,391 \$11,581 \$40,765 \$97,074	\$55,108 \$190,548 \$248,153 \$856,856				
Acular LS® Acular PF® Acuvai® Ketorolae Trometh Nepafenae Nevanae® Ilevro® Total	\$648 \$781 \$4,451 \$19,443 \$19,826	\$701 \$5,153 \$17,287 \$25,243	\$649 \$5,880 \$16,681 \$29,663	\$605 \$6,344 \$15,197 \$33,143	\$570 \$7,269 \$12,975 \$33,390	\$7,884 \$12,832 \$39,320	\$7,391 \$11,581 \$40,765	\$55,108 \$190,548 \$248,153				

<u>Notes & Sources</u>: In thousands. From IMS Data

Page 2 of 2

OPHTHALMIC NSAIDS SHARE OF TOTAL SALES EXCLUDING FLURBIPROFEN SODIUM PRODUCTS AND ACULAR PF® UNITED STATES

			2005			2006				2007		
		Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4
Bromfenac Sodium Xibrom® Bromday® Prolensa® Bromfenac Sodium	_	1.9%	4.4%	6.5%	9.9%	12.8%	14.5%	17.3%	18.0%	19.6%	21.3%	23.2%
Diclofenac Sodium Voltaren® Diclofenac Sodium		17.0% 0.0%	15.8% 0.0%	12.2% 0.0%	10.3%	9.1%	8.7%	8.1%	8,3%	7.1%	6.4%	5.8%
Ketorolac Trometh Acular® Acurail® Ketorolac Trometh Nepafenac Nevanac® Hevro®		51-4% 29.8%	44.7% 33.0%	36.0% 27.9%	32.8% 27.1% 19.9%	6 26,5% 6 19.0%	28.7% 28.9%	24.5% 30.7% 19.3%	23.9% 31.3% 18.4%	24.0% 31.1%	21.4% 31.7%	19.0% 30.9%
		100.0%	2.0%							18.2%	19.2%	21.1%
Total	8	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
Total Xibrom@/Bromday@/Prolensa®		1.9%	4.4%	6.5%	9.9%	12.8%	14.5%	17.3%	18.0%	19.6%	21.3%	23.2%
		2008	P			2009				2010	1	
	Q1	Q2	Q3	Q4	QI	Q2	Q3	Q4	Q1	Q2	Q3	Q4
Bromtenac Sodium Xibrom® Bromday® Proiensa® Bromfenac Sodium	24.8%	25.3%	26.8%	30,3%	30.4%	30.6%	31.1%	32.6%	41.8%	48.4%	51.1%	50.1% 2.9%
Bromday® Prolensa®	24.8% 3.0% 1.2%	25.3% 1.6% 1.0%	26.8% 1.0% 1.0%	30,3% 0.8% 0.9%	30.4% 0.6% 0.8%	30.6% 0.5% 0.8%	0.2% 0.9%	32.6% 0.2% 0.8%	41.8% 0.2% 1.3%	48.4% 0.1% 1.0%	0.1% 1.0%	
Xibrom® Bromday® Prolensa® Bromfenae Sodium Diclofenae Sodium Voltaren®	3.0%	1.6%	1.0%	0.8%	0.6%	0.5%	0.2%	0.2%	0.2%	0.1%	0.1%	2.9% 0.1%
Xibrom® Bromday® Prolensa® Bromfenac Sodium Diclofenac Sodium Voltaren® Diclofenac Sodium Ketorolac Trometh Acular® Acuvail®	3.0% 1.2% 19.2%	1.6% 1.0% 19.8%	1.0% 1.0% 18.2%	0.8% 0.9% 16.9%	0.6% 0.8% 16.3%	0.5% 0.8% 17.3%	0.2% 0.9% 16.3% 28.6%	0.2% 0.8% 9.4% 13.1% 18,4%	0.2% 1.3% 3.1% 2.4% 18.5%	0.1% 1.0% 2.2% 1.7% 9.2%	0.1% 1.0% 1.5% 8.2%	2.9% 0.1% 0.9% 1.3% 1.4% 5.5%
Xibrom® Bromday® Prolensa® Bromfenac Sodium Diclofenac Sodium Voltarcn® Diclofenac Sodium Ketorofac Trometh Acular US® Acuvail® Ketorolac Trometh Nepafenac Nevanac®	3.0% 1.2% 19.2% 30.7%	1.6% 1.0% 19.8% 30.7%	1.0% 1.0% 18.2% 30.9%	0.8% 0.9% 16.9% 31.2%	0.6% 0.8% 16.3% 32.0%	0.5% 0.8% 17.3% 31.1%	0.2% 0.9% 16.3% 28.6% 2.1%	0.2% 0.8% 9.4% 13.1% 18.4% 3.1%	0.2% 1.3% 3.1% 2.4% 18.5% 3.9%	0.1% 1.0% 2.2% 1.7% 9.2% 4.4%	0.1% 1.0% 1.7% 1.5% 8.2% 4.3%	2.9% 0.1% 0.9% 1.3% 1.4% 5.5% 4.2%

OPHTHALMIC NSAIDS SHARE OF TOTAL SALES EXCLUDING FLURBIPROFEN SODIUM PRODUCTS AND ACULAR PF® UNITED STATES

		2011				2012	,			2013		
	QI	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4
Bromfenac Sodium												
Xibrom®	32,2%	12.7%	0,3%	0.1%	0.0%	0.0%	0.0%	0.0%				
Bromday®	16.9%	26.7%	36.8%	42.0%	41.9%	41.7%	39.2%	38.3%	36.9%	30.7%	11.7%	0.4%
Prolensa®										6.2%	22.3%	31.3%
Bromfenac Sodium		6.2%	7.0%	7.4%	7.7%	8.0%	7.1%	7.1%	7.9%	8.5%	7.8%	9.1%
Diclofenac Sodium												1.0%
Voltaren®	0.1%	0.1%	0.1%	0.0%	0.0%	0.0%	0.0%	0.0%				
Diclofenac Sodium	1.1%	1.3%	1.3%	1.2%	1.1%	1.1%	1.0%	1.0%	0.9%	1.0%	1.0%	
Ketorolac Trometh												
Acular®	1.3%	1.2%	1.3%	0.8%	0.7%	0.7%	0.6%	0.5%	0.6%	0.6%	0.6%	0.5%
Acular LS®	1.3%	1.2%	1.1%	0,6%	0.6%	0.5%	0,5%	0.4%	0.4%	0.3%	0.3%	0.6%
Acuvail®	4.6%	3.7%	3.7%	2.8%	2.5%	1.4%	1.3%	1.3%	1.4%	1.2%	1.1%	1.1%
Ketorolac Trometh	4.6%	6.1%	6.0%	5.4%	4.8%	4.9%	5.2%	4.5%	4.3%	4.7%	4.8%	4.7%
Nepafenac												
Nevanac@	37.9%	40.9%	42.4%	39.6%	40.6%	41.8%	45.1%	46.9%	46.4%	43.4%	37.7%	31.3%
llevro®	31.276	40.970	42.478	37.076	40.070	41.070	45.170	40.570	1.3%	3.5%	12.6%	20.1%
Total	100.0%	100.0%	100.0%	100.0%	100.0%	100,0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
Total Xibrom@/Bromday@/Prolensa@	49.1%	39.4%	37.1%	42.1%	41.9%	41.7%	39.2%	38.3%	36.9%	36.8%	34,1%	31.6%
		2014				2015		2013 Q2				
	01	02	03	04	01	02	Q3	2015 Q3				
Bromfenac Sodium Xibrom®												
Bromday®	0.0%	0.0%	0.0%				0.0%	3.8%				
Prolensa®	32.2%	33.5%	32.4%	31.4%	33.1%	31.5%	32.3%	29.0%				
Bromfenac Sodium	10.1%	7.6%	6.3%	6.3%	5.0%	4.6%	3.9%	6.8%				
Diclofenac Sodium												
Voltaren®												
Diclofenac Sodium	0.8%	0.8%	0.7%	0.7%	0.7%	0.6%	0.8%	0.8%				
Ketorolac Trometh												
Acular®	0.5%	0.5%	0.3%	0.4%	0.4%	0.3%	0.3%	0.4%				
Acular LS®	0.8%	0.5%	0.5%	0.3%	0.3%	0.3%	0.3%	0.4%				
Acuvail®	1.0%	0.8%	0.7%	0.7%	0.6%	0.5%	0.5%	0.8%				
Ketorolac Trometh	5.6%	6.1%	6.6%	7.0%	8.1%	8.2%	7.7%	6.5%				
Nepafenac												
Nevanac®	24.3%	20.4%	18.9%	16.7%	14.5%	13.3%	12.0%	22.4%				
Ilevro®	24.8%	29.8%	33.5%	36.5%	37.2%	40.7%	42.2%	29.1%				
Total	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%				
Total Xibrom@/Bromday@/Prolensa@	32.2%	33.6%	32.4%	31.4%	33.1%	31.5%	32,3%	32.8%				
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Notes & Sources: From IMS Data.

OPHTHALMIC NSAIDS SHARE OF TOTAL SALES UNITED STATES

		2005				2006			2007			
	_	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4
Bromfenae Sodium Xibrom® Bromday® Prolensa® Bromfenac Sodium		1.8%	4.2%	6.4%	9.7%	12.5%	14.2%	17.0%	17.7%	19.3%	20,9%	22.9%
DicloFenac Sodium Voltaren® DicloFenac Sodium		16.5% 0,0%	15.4% 0.0%	11.9% 0.0%	10.0%	8.9%	8.5%	8-0%	8.2%	7.0%	6.3%	5.7%
Flurbiprofen Sodium Ocufen® Flurbiprofen Sodium		0.2% 1.9%	0.2% 1.8%	0.2% 1.8%	0:2% 1.7%	0-1% 1.4%	0.1% 1.4%	0.1% 1.4%	0.1% 1.2%	0.1% 1.1%	0.1% 1.0%	0.1% 1.0%
Ketorolac Trometh Acular® Acular LS® Acular PP® Acuvai® Ketorolac Trometh		49.7% 28.8% 1.1%	43.4% 32.1% 0.9%	35.0% 27.2% 0.8%	32.1% 26.5% 0.4%	31.8% 26.0% 0.6%	28.1% 28,3% 0.5%	24.0% 30.1% 0.6%	23.5% 30.7% 0.6%	23.6% 30.6% 0.5%	21-1% 31.2% 0.5%	18.7% 30.5% 0.4%
Nepafenac Nevanac® Ilevro®			2.0%	16.9%	19.4%	18.6%	18.8%	18.9%	18,1%	17.9%	18,9%	20.8%
Total	() (†	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
Total Xibrom@/Bromday®/Prolensa®		1.8%	4.2%	6.4%	9.7%	12.5%	14.2%	17.0%	17.7%	19.3%	20.9%	22.9%
		2008	2			2009				2010)	
	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4
Bromfenac Sodium Xibrom® Bromday® Prolensa® Bromfenac Sodium	24.5%	25.0%	26.4%	29.9%	30.0%	30.3%	30.8%	32.4%	41.4%	48.0%	50.7%	49.7% 2.9%
Diclofenac Sodium Voltaren® Diclofenac Sodium	3.0% 1.2%	1.6%	1.0% 1.0%	0.8% 0.9%	0.6% 0.8%	0.5% 0.8%	0.2% 0.9%	0.2% 0.8%	0.2%	0.1% 1.0%	0.1% 0.9%	0.1% 0.9%
Flurbiprofen Sodium Ocufen® Flurbiprofen Sodium	0.1% 1.0%	0.0% 0.9%	0.0% 0.9%	0.0% 0.8%	0.0% 0.8%	0.0% 0.7%	0.0% 0.7%	0.0% 0.6%	0.0% 0.7%	0.0% 0.8%	0.0% 0.7%	0.0%
Ketorolac Trometh Acular® Acular LS® Acular PF®	18.9% 30.3%	19.5% 30.3% 0.4%	17.9% 30.5% 0.4%	16.7% 30.8% 0.4%	16.1% 31.6% 0.4%	17.1% 30.8% 0.4%	16.1% 28.3% 0.3%	9.3% 13.0% 0.0% 18.2%	3.1% 2.4% 0.0% 18.4%	2.2% 1.7% 0.0% 9.1%	1.7% 1.5% 0.0% 8.1%	1.2% 1.4% 5.5%
Acuvail@ Ketorolac Trometh	0.5%	0.470					2.0%	3,1%	3.8%	4.4%	4,2%	4.1%
Acuvail@	0.5%	21.3%	21.9%	19.6%	19.6%	19 4%	20.6%					
Acuvail@ Ketorolac Trometh Nepafenac Nevanac®			21.9%	19.6%	19.6%	19.4%		3,1%	3,8%	4,4%	4,2%	4.1%

OPHTHALMIC NSAIDS SHARE OF TOTAL SALES UNITED STATES

		2011				2012	2			2013		
	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4
Bromfenac Sodium Xibrom® Bromdav®	32.0% 16.8%	12.6% 26.5%	0.3% 36.5%	0.1% 41.7%	0-0% 41.6%	0.0%	0.0%	0.0% 38.1%	36.7%	30,5%	11.7%	0.4%
Prolensa@ Bromfenac Sodium	10,876	6.1%	7.0%	7.4%	7.7%	7.9%	7.0%	7.1%	7.8%	6.1% 8.5%	22.2%	31.1%
Diclofenac Sodium Voltaren® Diclofenac Sodium	0.1%	0.1% 1.3%	0.1%	0.0%	0.0%	0.0%	0.0%	0.0% 0.9%	0.9%	1,0%	1.0%	
Flurbiprofen Sodium Ocufen®	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.9%	0.9%	0.0%	0.0%	1.0%
Flurbiprofen Sodium	0.7%	0.8%	0.8%	0.7%	0.7%	0.7%	0.6%	0.6%	0.6%	0.6%	0.7%	0.6%
Ketorolac Trometh Acular® Acular LS®	1.3%	1.2% 1.2%	1.3% 1.1%	0.8% 0.6%	0.7% 0.6%	0.7% 0.5%	0.6% 0.5%	0.5% 0.4%	0.6% 0.4%	0.6% 0.3%	0.6% 0.3%	0.5%
Acutar PF® Acuvail® Ketorolac Trometh	4.6%	3.7% 6.0%	3.7% 5.9%	2.8% 5.4%	2.5% 4.8%	1.4% 4.9%	1.3% 5.1%	1 3%	1.3% 4.3%	1.1%	1.1%	1.1%
Nepafenac Nevanac® Ilevro®	37.6%	40.5%	42.1%	39.3%	40,3%	41.5%	44.8%	46.6%	46.1% 1.3%	43-1% 3,5%	37.5% 12.5%	31.0% 20.09
Total	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
Total Xibrom@/Bromday@/Prolensa@	48.7%	39.1%	36.8%	41.7%	41.6%	41.4%	39.0%	38.1%	36.7%	36.6%	33.8%	31.4%
		2014				2015		2013 Q2				
Bromfenac Sodium Xibrom©	Q1	Q2	Q3	Q4	<u>Q1</u>	Q2	Q3	2015 Q3				
Bromday© Prolensa® Bromfenac Sodium	0.0% 32.0% 10.0%	0.0% 33.4% 7.6%	0.0% 32.2% 6.2%	31.2% 6.3%	32.9% 5.0%	31.3% 4.6%	0.0% 32.1% 3.9%	3 8% 28 8% 6 7%				
Diclofenac Sodium Voltaren® Diclofenac Sodium	0.8%	0.8%	0.7%	0.7%	0.7%	0.6%	0.8%	0.8%				
Flurbiprofen Sodium Ocufen® Flurbiprofen Sodium	0.0% 0.6%	0.0% 0.5%	0.0% 0.5%	0.0% 0.5%	0.0% 0.5%	0.0% 0.5%	0.0% 0.5%	0.0% 0.6%				
Ketorolac Trometh Acular® Acular LS®	0.5% 0.8%	0.5% 0.5%	0.3% 0.5%	0.4% 0.3%	0.4% 0.3%	0.3% 0.3%	0.3% 0.3%	0.4% 0.4%				
Acular PF® Acuvail® Ketorolac Trometh	1.0% 5.5%	0.8% 6.0%	0.7% 6.6%	0.7% 7.0%	0.6% 8.1%	0.5% 8.1%	0.5% 7.6%	0.8% 6.4%				
Nepafenac Nevanac® Hevro®	24.1% 24.6%	20.3% 29.6%	18 8% 33 4%	16.7% 36.3%	14.4% 37.0%	13.2% 40.5%	11.9% 42.0%	22.2% 29.0%				
Total	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%				
Total Xibrom@/Bromday@/Prolensa@	32.0%	33.4%	32.2%	31.2%	32.9%	31.3%	32.1%	32.6%				

Notes & Sources From IMS Data

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OPHTHALMIC NSAIDS TOTAL PRESCRIPTIONS DISPENSED UNITED STATES

Beneficial: Solium Q2 Q3 Q4 Q1 Q2 Q3 Q4 Q1 Q2 Q3 Q4 Standing Beneficial: Solium 664 13,740 23.501 31,592 41,103 50,453 63,451 72,645 90,554 101,457 108,76 Decidence: Solium Dicidence: Solium 75,568 69,013 55,516 44,692 44,299 42,390 40,338 38,338 36,639 34,013 30,77 Dicidence: Solium 55 35 32 33 37 36 35 52 59 42 100 14 20,817 15,666 15,5276 15,514 14,129 12,0231 15,5214 15,568 15,5276 15,5236 15,5276 15,5236 15,5276 15,528				2005			2005				200	7	
Xiborshi Brondsyst 668 13,740 23,501 31,592 41,103 50,499 63,411 72,685 90,594 101,857 198,706 Brondsyst Brondsrade Brondsrade Storators 53 32 33 37 36 35 32 33 35 35 35 32 33 35 35 35 35 35 35 35 35 35 35 35 35 35 35 35 35 35 36 35 36 35 36 35 36 35 36 35 36 35 36 35 36 35 36 35 36 35 36 35 36 35 36 35 36 35 36 35 36 35 36 35 36 35 36 36 36 36 36 36 36 36 36 36 36 36 36 36			Q2		Q4	Q1		Q3	Q4	Q1			Q4
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	Xibrom® Bromday® Prolensa®		600	13,740	23,501	31,592	41,103	50,459	63,451	72,685	90,594	101,857	108,760
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	Voltaren®												30,870 123
Acular06 196,666 169,940 140,995 124,312 142,429 169,972 107,601 120,281 105,270 95,900 Acular LS6 146,012 135,642 141,129 13,292 1,079 1,079 1,138 1,241 1,120 13,202 Acuval8 Xeroval8 2,158 1,937 1,533 1,522 1,079 1,079 1,018 1,241 1,120 1,202 Acuval8 Xeroval8 2,425 63,620 89,154 107,574 109,859 113,173 113,153 125,662 133,510 143,822 Browlex 2,425 63,620 89,154 107,574 109,859 113,173 113,153 125,662 133,510 143,822 Browlex 411,595 424,793 422,467 489,469 491,832 501,685 521,397 582,148 587,046 591,88 Total Cos 2009 2010 22 03 04 01 2,22 03,676 191,877 108,70	Ocufea(®)												143 15,963
Neranzik 2,425 63,620 89,154 107,574 109,839 113,173 113,153 125,062 133,310 143,82 Total 434,515 426,921 439,343 436,652 503,012 565,687 515,623 536,869 598,817 604,152 609,00 Total (Excluding Flurbiprofen Sodium products and Acata FP#9) 418,901 411,595 424,793 422,867 489,369 491,832 501,685 521,597 582,148 587,086 591,88 Total (Excluding Flurbiprofen Sodium products and Acata FP#9) 418,901 411,595 424,793 422,867 489,369 491,832 501,685 521,597 582,148 587,086 591,88 Total Xibrom #/Biromday@Prolenea@ 600 13,740 23,501 31,592 41,103 50,657 63,451 72,685 90,594 101,857 108,766 194,505 Bromfinae Sodium 112,864 123,782 127,727 137,019 144,225 156,857 164,459 162,483 157,852 178,029 193,676 194,50	Acular LS@ Acular PF® Acuvail®		146,012	156,442	141,129	133,694	152,922	164,849	174,756	189,568	209,493	212,394	95,905 212,399 1,021
Total (Excluding Flurbiprofen Sodium) 418,901 411,595 424,793 422,867 489,369 491,852 501,685 521,397 582,148 587,086 591,887 Total Xibrom \$\mathbf{R}/Bromday \$\mathbf{W} Prolensa\$ 600 13,740 23,501 31,592 41,103 50,459 63,451 72,685 90,054 101,877 108,76 Demotines Sodium Xibrom \$\mathbf{k} 112,864 123,782 127,727 137,019 144,225 156,857 164,439 (62,483 157,832 178,029 193,676 194,50 Bromfines Sodium 112,864 123,782 127,727 137,019 144,225 156,857 164,439 (62,483 157,832 178,029 193,676 194,50 Storm fance Sodium 112,864 123,782 127,727 137,019 144,225 156,857 164,439 (62,483 157,832 178,029 193,676 194,50 Storm fance Sodium 132,86 8,560 4,596 3,570 2,568 1,993 1,389 749 506 <td>Nevanac%</td> <td></td> <td></td> <td>2,425</td> <td>63,620</td> <td>89,154</td> <td>107,574</td> <td>109,839</td> <td>113,173</td> <td>113,153</td> <td>125,062</td> <td>133,510</td> <td>143,825</td>	Nevanac%			2,425	63,620	89,154	107,574	109,839	113,173	113,153	125,062	133,510	143,825
products and Acular PF#0 418,591 411,595 424,733 422,867 489,369 491,852 501,685 521,197 582,148 587,086 591,88 Total Xbrom#v@rolensa@ 600 13,740 23,501 31,592 41,103 50,459 63,451 72,685 90,594 101,857 108,76 QU Q2 Q3 Q4 Q1 Q3 Q4 Q3 Q3 <td>Total</td> <td></td> <td>434,515</td> <td>426,921</td> <td>439,343</td> <td>436,652</td> <td>503,012</td> <td>505,687</td> <td>515,623</td> <td>536,869</td> <td>598,817</td> <td>604,132</td> <td>609,009</td>	Total		434,515	426,921	439,343	436,652	503,012	505,687	515,623	536,869	598,817	604,132	609,009
2008 2009 2010 Bromfinac Sodium Xibron % 112,864 123,782 127,727 137,019 144,225 156,857 164,450 162,483 157,832 178,029 193,676 194,50 Bromfinac Sodium Velocensile Bromfenac Sodium 112,864 123,782 127,727 137,019 144,225 156,857 164,450 162,483 157,832 178,029 193,676 194,50 Bromfenac Sodium Velacensile Bromfenac Sodium 13,359 21,427 23,514 25,063 25,551 30,371 32,382 33,318 33,191 37,335 41,865 45,57 Parbiprofen Sodium 13,259 21,427 23,514 25,063 25,551 30,371 32,382 33,318 33,191 37,335 41,865 45,57 Parbiprofen Sodium 15,979 17,040 17,273 17,652 17,162 18,875 19,727 19,923 18,859 20,403 21,980 22,378 Acabar Ka 91,058 104,202 91,977 84,386 8			418,901	411,595	424,793	422,867	489,369	491,852	501,685	521,397	582,148	587,086	591,882
Q1 Q2 Q3 Q4 Q1 Q2 Q3 Q4 Q1 Q2 Q3 Q4 Bromfenac Sodium 112,864 123,782 127,727 137,019 144,225 156,857 164,430 162,483 157,832 178,029 193,676 194,50 Bromfenac Sodium Diclofenac Sodium 0 13,359 21,427 23,514 25,063 25,551 30,371 32,382 33,318 33,191 37,335 41,865 45,57 Plarbiprofen Sodium 132 152 117 102 95 92 60 69 76 87 75 7 Flurbiprofen Sodium 15,979 17,040 17,273 17,632 17,162 18,875 19,727 19,923 18,859 20,403 21,980 22,378 Acubar® 91,058 104,202 91,797 84,386 80,469 90,919 81,974 47,775 13,122 10,827 6,558 4,63 Acubar® 91,058	Total Xibrom&/Bromday®/Prolensa®		600	13,740	23,501	31,592	41,103	50,459	63,451	72,685	90,594	101,857	108,760
Q1 Q2 Q3 Q4 Q1 Q2 Q3 Q4 Q1 Q2 Q3 Q4 Bromfenac Sodium 112.864 123,782 127,727 137,019 144,225 156,857 164,430 162,483 157,832 178,029 193,676 194,50 Bromfenac Sodium Diclofenac Sodium 13,359 21,427 23,514 25,063 25,551 30,371 32,382 33,318 33,191 37,335 41,865 45,557 Plarbipofen Sodium 132 152 117 102 95 92 60 69 76 87 75 7 Flarbiprofen Sodium 15,979 17,040 17,273 17,632 17,162 18,875 19,727 19,923 18,859 20,403 21,980 22,378 Acubar® 91,058 104,202 91,797 84,386 80,469 90,919 81,974 47,775 13,122 10,827 6,558 4,63 Acubar PF@ 1,060 1,222			20/2	8			200	i0			201	0	
Xibrom% 112,864 123,782 127,727 137,019 144,225 156,857 164,430 162,483 157,832 178,029 193,676 194,50 Bromday% Protensa% Bromday% Protensa% 14,916 8,560 4,996 3,570 2,568 1,993 1,389 749 506 1,073 556 49 Diclofenae Sodium 13,359 21,427 23,514 25,063 25,551 30,371 32,382 33,318 33,191 37,335 41,865 45,57 Flarbiprofen Sodium 0cafen% 132 152 117 102 95 92 60 69 76 87 75 7 Flarbiprofen Sodium 15.979 17,040 17.273 17,632 17,162 18,875 19,727 19,923 18,859 20,443 21,980 22,37 Ketorolac Trometh Acular US % 205,743 220,330 221,588 224,808 220,469 236,737 213,690 105,795 17,001		Q1			Q4	Q1			Q4	Q1			Q4
Volumernä 14,916 8,560 4,996 3,570 2,568 1,993 1,389 749 506 1,073 556 490 Dicloienae Sodium 13,359 21,427 23,514 25,063 25,551 30,371 32,382 33,318 33,191 37,335 41,865 45,57 Flurbiprofen Sodium 0calen% 132 152 117 102 95 92 60 69 76 87 75 7 Flurbiprofen Sodium 15,979 17,040 17,273 17,632 17,162 18,875 19,727 19,923 18,859 20,403 21,980 22,37 Ketotolac Trometh Acular% 91,058 104,202 91,797 84,386 80,469 90,919 81,974 47,775 13,122 10,827 6,558 4,63 Acular US 205,743 220,330 221,588 224,808 220,469 236,737 213,690 105,795 17,001 12,58 8,263 5,58 4,633	Xibron % Bromday® Prolensa%	112,864	123,782	127,727	137,019	144,225	156,857	164,430	162,483	157,832	178,029	193,676	194,501 8,853
Ocularities 132 152 117 102 95 92 60 69 76 87 75 7 Flurbiprofen Sodium 15.979 17,040 17.273 17,632 17,162 18,875 19,727 19,923 18.859 20.403 21,980 22.37 Ketorola: Trometh Acular08 91,058 104,202 91,797 84,386 80,469 90,919 81,974 47,775 13,122 10,827 6,558 4,63 Acular08 91,058 104,202 91,797 84,386 80,469 90,919 81,974 47,775 13,122 10,827 6,558 4,63 Acular15.5% 205,743 220,330 221,588 224,808 220,469 236,757 213,690 105,795 17,001 12,558 8,463 5,58 Acular 15.5% 10,60 1,222 1,148 928 931 983 76.51 67,981 44,813 39,983 32,05 Ketorola: Trometh Negafenac	Voltaren®												497 43,575
Ketorolac Trometh Acular® 91,058 104,202 91,797 84,386 80,469 90,919 81,974 47,775 13,122 10,827 6,558 4,63 Acular® 91,058 205,743 220,330 221,588 224,808 200,469 90,919 81,974 47,775 13,122 10,827 6,558 4,63 5,58 Acular PF® 1,060 1,222 1,148 928 931 983 716 238 97 48 10 1 Acular PF® 1,060 1,222 1,148 928 931 983 716 238 97 48 10 1 Acular PF® 1,060 1,222 1,148 928 931 983 716 238 97 48 10 1 Acular PF® 138,882 155,622 160,120 148,997 149,932 169,989 172,697 175,315 171,652 196,898 195,918 200,49 Ilevro® 1levro® <td< td=""><td>Oculente</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>76 22.378</td></td<>	Oculente												76 22.378
Nevanac% 138,882 155,622 160,120 148,997 149,932 169,989 172,697 175,315 171,652 196,898 195,918 200,49 Ilervor® 593,993 652,337 648,280 642,505 641,402 706,816 689,956 683,412 620,536 680,153 701,244 723,12 Total (Excluding Flurbiprofen Sodium products and Acular PF@) 576,822 633,923 629,742 623,843 623,214 686,866 669,453 663,182 601,504 659,615 679,179 700,666	Ketorolac Trometh Acular® Acular JS® Acular PF® Acuvail®	91,058 205,743	104,202 220,330	91,797 221,588	84,386 224,808	80,469 220,469	90,919 236,737	81,974 213,690 716	47,775 105,795 238 76,315	13,122 17,001 97 67,981	10,827 12,558 48 44,813	6,558 8,263 10 39,983	4,636 5,584 11 32,939 207,585
Total (Excluding Flurbiprofen Sodium products and Acular PF®) 576,822 633,923 629,742 623,843 623,214 686,866 669,453 663,182 601,504 659,615 679,179 700,66	Nevanac'š	138,882	155,622	160,120	148,997	149,932	169,989	172,697	175,315	171,652	196,898	195,918	200,493
products and Acular PF@) 576,822 633,923 629,742 623,843 623,214 686,866 669,453 663,182 601,504 659,615 679,179 700,66	Total	593,993	652,337	648,280	642,505	641,402	706,816	689,956	683,412	620,536	680,153	701,244	723,128
Total Xibrom/#/Bromday/#/Prolensa@ 112,864 123,782 127,727 137,019 144,225 156,857 164,430 162,483 157,832 178,029 193,676 203,35													
		576,822	633,923	629,742	623,843	623,214	686,866	669,453	663,182	601,504	659,615	679,179	700,663

OPHTHALMIC NSAIDS TOTAL PRESCRIPTIONS DISPENSED UNITED STATES

		201	1			201	2			201	3	
	Q1	Q2	Q3	Q4	QI	Q2	Q3	Q4	Q1	Q2	Q3	Q4
Bromfenac Sodium Xibrom® Bromday® Protensa® Bromfenac Sodium	95,438 92,043	27,807 141,205 9,825	6,298 166,058 27,724	3,533 189,768 32,276	1,447 181,996 34,430	450 172,731 37,983	191 167,038 36,507	123 162,501 32,559	75 157,013 35,178	42 140,052 20,034 37,983	41 55,783 95,546 35,530	2 14,28 146,47 38,64
Diclofenac Sodium Voltaren® Diclofenac Sodium	411 48,498	321 60,656	331 63,533	314 63,204	143 67,124	60 70,027	19 71,211	12 72,651	15 71,006	6 78,614	11 80,741	81,3
Flurbiprofen Sodium Ocufen® Flurbiprofen Sodium	80 22,379	43 25,679	45 26,057	44 26,434	26 29,626	54 30,584	38 32,125	36 31,069	29 29,838	29 32,593	36 34,002	35,41
Ketorolac Trometh Acular(% Acular LS@ Acular PF@ Acurai(% Ketorolac Trometh	3,811 4,228 6 25,757 216,398	3,427 3,993 4 18,579 268,916	2,972 2,898 4 14,161 269,828	2,043 2,432 3 11,788 274,210	1,559 1,979 10,321 294,578	1,380 1,573 2 8,152 316,428	1,369 1,405 6,687 322,171	1,209 1,183 5,873 317,091	950 1,035 5,204 316,691	906 1,053 4,508 351,749	803 779 3,799 351,106	61 1,18 3,56 348,99
Nepalenae NevanaeE IlevroTi	183,278	190,396	187,851	198,900	211,339	223,823	249,947	259,078	235,601 606	225,549 18,026	191,233 65,825	157,9 112,4
Total	692,327	750,851	767,760	\$04,949	834,568	863,247	888,708	883,385	853,261	911,144	915,235	941.0
Total (Excluding Flurbiprofen Sodium products and Acular PF®)	669,862	725,125	741,654	778,468	804,916	\$32,607	856,545	852,280	823,394	878,522	881,197	905,5
Total Xibrom@/Bromday@/Prolensa®	187,481	169,012	172,356	193,301	183,443	173,181	167,229	162,624	157,088	160,128	151,370	160,7
		20			4	2015 Q3		2013 Q2 -				
Bromfenac Sodium Xibrom Bromday Prolensa Bromfenac Sodium	Q1 18 2,669 149,409 39,783	Q2 14 956 163.653 41,903	Q3 26 . 283 167,241 42,887	Q4 7 82 169,388 41,790	Q1 5 31 156,919 34,925	27 166,337 34,265	Q3 12 168,902 32,871	2015 Q3 181 214,177 1,403,907 380,583				
Diclofenac Sodium Voltaren⁄& Diclofenac Sodium	11 77,973	10 86,153	4 89,261	4 88,960	2 85,798	5 95,778	9 98,041	70 862,634				
Flurbiprofen Sodium Ocufen® Flurbiprofen Sodium	31 33,544	21 35,436	14 37,042	23 36,264	28 35,255	28 38,578	19 38,346	258 356,541				
Ketorolae Trometh Acular LS® Acular LS® Acular PF® Acuvail® Ketorolae Trometh	656 1,823 2,749 332,870	706 1,096 2,488 378,926	621 1,311 2,287 385,938	682 803 2,170 378,108	572 554 1,890 360,990	596 476 1 1,671 409,254	523 511 1,539 407,274	6,677 9,586 4 26,669 3,705,200				
Nepafenac Nevanac® Ilevro®	123,014 128,970	108,198 163,527	92,900 181,744	79,197 191,610	62,714 179,481	54,424 195,995	47,855 200,985	1,143,059 1,438,655				
Total	893,520	983,087	1,001,559	989,088	919,164	997,435	996,887	9,548,201				
Total (Excluding Flurbiprofen Sodium products and Acular PF®)	859,945	947,630	964,503	952,801	883,881	958,828	958,522	9,191,398				
Total Xibrom®/Bromday®/Prolensa®	152,096	164,623	167,550	169,477	156,955	166,364	168,914	1,618,265				

Notes & Sources: From IMS Data

PAGE 108 OF 123

OPHTHALMIC NSAIDS SHARE OF TOTAL PRESCRIPTIONS DISPENSED EXCLUDING FLURBIPROFEN SODIUM PRODUCTS AND ACULAR PF® UNITED STATES

			2005			2006				2007		
		Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4
Bromfenac Sodium Xibrom® Bromday® Prolensa® Bromfenac Sodium		0.1%	3.3%	5.5%	7.5%	8.4%	10.3%	12.6%	13.9%	15.6%	17.3%	18.4%
Diclofenac Sodium Voltaren® Diclofenac Sodium		18.0% 0,0%	16.8% 0,0%	13.1% 0,0%	10.4% 0.0%	9.1% 0.0%	8.6% 0.0%	8.0% 0.0%	7.4% 0.0%	6,3% 0,0%	5.8% 0.0%	5.2% 0.0%
Ketorolac Trometh Acular® AcularLS® Acuvai® Ketorolac Trometh	8	46.9% 34.9%	41.3% 38.0%	33.2% 33.2%	29.4% 31.6%	29,3% 31.2%	25.3% 33.5%	21.9% 34.8%	20.6% 36.4%	20.7% 36.0%	17.9% 36.2%	16.2% 35.9%
epafenac Nevanac® Hevro® otal			0.6%	15.0%	21.1%	22.0%	22.3%	22.6%	21.7%	21.5%	22.7%	24.3%
	-	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
Total Xibrom@/Bromday@/Prolensa®		0.1%	3.3%	5.5%	7.5%	8.4%	10,3%	12,6%	13.9%	15.6%	17.3%	18,4%
		2008	l			2009	9			2010		
	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4
Bromfenac Sodium Xibron/® Bromday® Protense® Bromfenac Sodium	19.6%	19.5%	20.3%	22.0%	23.1%	22.8%	24.6%	24.5%	26.2%	27.0%	28.5%	27.8% 1.3%
Diclofenac Sodium Voltaren⊛ Diclofenac Sodium	2.6% 2.3%	1.4% 3.4%	0.8% 3.7%	0.6% 4.0%	0,4% 4.1%	0.3% 4.4%	0.2% 4.8%	0.1% 5.0%	0.1% 5.5%	0.2% 5.7%	0.1% 6.2%	0.1% 6.5%
Ketorolac Trometh Acular® Acular LS® Acuvail® Ketorolac Trometh	15.8% 35.7%	16.4% 34.8%	14.6% 35.2%	13.5% 36.0%	12.9% 35.4%	13.2% 34.5%	12.2% 31.9% 0.4%	7.2% 16.0% 11.5% 9.3%	2.2% 2.8% 11.3% 23.3%	1.6% 1.9% 6.8% 27.0%	1.0% 1.2% 5.9% 28,3%	0.7% 0.8% 4.7% 29.6%
Nepafenac Nevanac® Hevro®	24.1%	24.5%	25.4%	23.9%	24.1%	24.7%	25.8%	26.4%	28.5%	29.9%	28.8%	28.6%
Total	100,0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100,0%	100.0%	100.0%	100.0%
Total Xibrom@/Bromday@/Prolensa@												

OPHTHALMIC NSAIDS SHARE OF TOTAL PRESCRIPTIONS DISPENSED **EXCLUDING FLURBIPROFEN SODIUM PRODUCTS AND ACULAR PF®** UNITED STATES

		2011				2012				2013		
	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4
Bronifenac Sodium				0.000	6 061		0.001	0.00	0.007	0.004	0.004	0.0%
Xibrom®	14.2%	3.8%	0.8%	0.5%	0.2%	0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	1.6%
Bromday®	13.7%	19.5%	22.4%	24.4%	22.6%	20.7%	19.5%	19.1%	19.1%	2.3%		1.0%
Prolensa®			2 50/	4.304	1.78	4 (0)	4 204	2 00/	4 304		10.8%	
Bromfenac Sodium		1.4%	3.7%	4.1%	4.3%	4.6%	4.3%	3.8%	4.3%	4.3%	4.0%	4.3%
Diclofenac Sodium												
Voltaren®	0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Diclofenac Sodium	7.2%	8.4%	8.6%	8.1%	8.3%	8.4%	8.3%	8.5%	8.6%	8.9%	9.2%	9.0%
Ketorolac Trometh												
Acular®	0.6%	0.5%	0.4%	0.3%	0.2%	0.2%	0.2%	0.1%	0.1%	0.1%	0.1%	0.1%
Acular LS®	0.6%	0.6%	0.4%	0.3%	0.2%	0.2%	0.2%	0.1%	0.1%	0.1%	0.1%	0.1%
Acuvait®	3.8%	2.6%	1.9%	1.5%	1.3%	1.0%	0.8%	0.7%	0.6%	0.5%	0.4%	0.4%
Ketorolac Trometh	32.3%	37,1%	36.4%	35.2%	36.6%	38.0%	37.6%	37.2%	38,5%	40.0%	39.8%	38.5%
Nepafenac Nevanac®	27.4%	26.3%	25.3%	25.6%	26.3%	26.9%	29.2%	30.4%	28.6%	25.7%	21.7%	17.4%
	27.4%	20 3%	25.3%	23.0%	20.3%	20.9%	29.270	30.4%	0.1%	2.1%	7.5%	12.4%
Ilevro®					2.2							
Total	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100,0%	100,0%	100.0%	100,0%	100,0%
Total Xibrom@/Bromday@/Prolensa®	28.0%	23,3%	23.2%	24,8%	22.8%	20.8%	19,5%	19.1%	19,1%	18.2%	17.2%	17.8%
		2014	1			2015		2013 Q2 -				
	QI	Q2	Q3	Q4	Q1	Q2	Q3	2015 Q3				
Bromfenac Sodium			12.57	121.224								
Xibrom®	0.0%	0.0%	0.0%	0.0%	0.0%			0.0%				
Bronday®	0.3%	0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	2.3%				
Prolensa®	17.4%	17.3%	17.3%	17.8%	17.8%	17,3%	17.6%	15.3%				
Bromfenac Sodium	4.6%	4.4%	4.4%	4.4%	4.0%	3.6%	3.4%	4.1%				
Diclofenac Sodium												
Voltaren®	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%				
Diclofenac Sodium	9.1%	9.1%	9.3%	9.3%	9.7%	10.0%	10.2%	9.4%				
Ketorolac Trometh												
Acular®	0.1%	0.1%	0.1%	0.1%	0.1%	0.1%	0.1%	0.1%				
Acutarus Acutar LS®	0.2%	0.1%	0.1%	0.1%	0.1%	0.0%	0.1%	0.1%				
Acutar LS® Acuvail®	0.3%	0.1%	0.1%	0.2%	0.1%	0.2%	0.1%	0.3%				
	38.7%	40.0%	40.0%	39.7%	40.8%	42.7%	42.5%	40.3%				
Ketorolac Trometh	38.7%	40.0%	40.070	33.170	40.070	72+170	+4.370	40,370				

Notes & Sources: From IMS Data.

Total Xibrom@/Bromday@/Prolensa®

14.3%

15.0%

100.0%

17.7%

11.4%

17.3%

100.0%

17.4%

9.6%

18,8%

100.0%

17.4%

8.3%

20,1%

100.0%

17.8%

Nepafenac Nevanac®

Ilevro®

Total

7.1%

20,3%

100.0%

17.8%

5.7%

20.4%

100.0%

17.4%

5.0%

21.0%

100.0%

17.6%

12.4%

15.7%

100.0%

17.6%

OPHTHALMIC NSAIDS SHARE OF TOTAL PRESCRIPTIONS DISPENSED UNITED STATES

			2005			2006				2007	h	
	-	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4
Voltaren®		0_1%	3.2%	5.3%	7.2%	8.2%	10,0%	12.3%	13.5%	15.1%	16.9%	17.9%
Diclofenac Sodium Voltaren® Diclofenac Sodium		17.4% 0.0%	16.2% 0.0%	12.6% 0.0%	10.1% 0.0%	8.8% 0.0%	8.4% 0.0%	7.8% 0.0%	7 1% 0 0%	6.1% 0.0%	5.6% 0.0%	5.1% 0.0%
Flurbiprofen Sodium Ocufen® Flurbiprofen Sodium		0.1% 3.0%	0.1% 3.0%	0.1% 2.9%	0.1% 2.8%	0.1% 2.4%	0.0% 2.5%	0.0% 2.4%	0,0% 2.6%	0.0% 2.5%	0.0% 2.6%	0.0%
Ketorolac Trometh Acular® Acular LS® Acular PF® Acuvail® Ketorolac Trometh		45.3% 33.6% 0.5%	39,8% 36,6% 0.5%	32.1% 32.1% 0.4%	28.5% 30.6% 0.3%	28.5% 30.4% 0.2%	24.6% 32.6% 0.2%	21.3% 33.9% 0-2%	20.0% 35.3% 0.2%	20.1% 35.0% 0.2%	17 4% 35 2% 0 2%	15.7% 34.9% 0.2%
epafenac Nevanac® Ilevro®			0.6%	14.5%	20.4%	21,4%	21.7%	21.9%	21-1%	20.9%	22.1%	23.6%
Total		100.0%	100.0%	100.0%	100,0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
Total Xibrom®/Bromday®/Prolensa®		0.1%	3.2%	5.3%	7.2%	8.2%	10,0%	12,3%	13.5%	15.1%	16.9%	17.99
		2008				200				2010		
8		Q2	0.2	Q4	01	02	Q3	Q4	10	QZ	02	04
D C C I	QI	Q2	Q3		Q1	Q2			<u>Q1</u>		Q3	Q4
Bromfenac Sodium Xibrom® Bromday® Prolensa® Bromfenac Sodium	<u>Q1</u> 19.0%	19.0%	19.7%	21.3%	22.5%	22.2%	23.8%	23.8%	25.4%	26.2%	27.6%	26,9
Xibrom® Bromday® Prolensa®								1.00				26.99 1.29
Xibrom® Bromday® Prolensa® Bromfenae Sodium Diclofenae Sodium Voltaren®	19.0%	19.0%	0.8%	21.3%	0.4%	22.2%	23.8%	0.1%	25.4%	26.2%	27.6%	26.99 1.29 0.19 6.39
Xibrom® Bromfay® Bromfenac Sodium Diclofenac Sodium Voltaren® Diclofenac Sodium Flurbiprofen Sodium Ocufen®	19.0% 2.5% 2.2% 0.0%	19.0% 1.3% 3.3% 0.0%	0.8% 3.6% 0.0%	21.3% 0.6% 3.9% 0.0%	22.5% 0.4% 4.0% 0.0%	0.3% 4.3% 0.0%	23.8% 0.2% 4.7% 0.0%	0.1% 4.9% 0.0%	25.4% 0.1% 5.3% 0.0%	26.2% 0.2% 5.5% 0.0%	27.6% 0.1% 6.0% 0.0%	26.9' 1.2' 0.1' 6.3' 0.0' 3.1' 0.6' 0.8' 0.8' 0.8' 4.6'
Xibrom® Bronday® Prolensa@ Bromfenac Sodium Diclofenac Sodium Outaren@ Diclofenac Sodium Flurbiprofen Sodium Plurbiprofen Sodium Ketorolac Trometh Acular & Acular LS® Acular PF® Acuvai@	2.5% 2.2% 0.0% 2.7% 15.3% 34.6%	19.0% 1.3% 3.3% 0.0% 2.6% 16.0% 33.8%	19.7% 0.8% 3.6% 0.0% 2.7% 14.2% 34.2%	21.3% 0,6% 3.9% 0.0% 2.7% 13.1% 35.0%	22.5% 0.4% 4.0% 0.0% 2.7% 12.5% 34.4%	22.2% 0.3% 4.3% 0.0% 2.7% 12.9% 33.5%	23.8% 0.2% 4.7% 0.0% 2.9% 11.9% 31.0% 0.1%	23.8% 0.1% 4.9% 0.0% 2.9% 7.0% 15.5% 0.0% 11.2%	25.4% 0.1% 5.3% 0.0% 3.0% 2.1% 2.7% 0.0% 11.0%	26.2% 0.2% 5.5% 0.0% 3.0% 1.6% 1.8% 0.0% 6.6%	27 6% 0.1% 6.0% 0.0% 3.1% 0.9% 1.2% 0.0% 5.7%	26.99 1.29 0.19 6.39 0.09 3.19 0.69 0.88 0.09 4.66 28.79
Xibrom® Bromday® Protensa® Bromfenac Sodium Diclofenac Sodium Voltaren® Diclofenac Sodium Flurbiprofen Sodium Ketorolac Trometh Acular LS® Acular LS® Acular PF® Acular PF® Acular Drometh Nepafenac Nevanac®	2.5% 2.2% 0.0% 2.7% 15.3% 34.6% 0.2%	19.0% 1.3% 3.3% 0.0% 2.6% 16.0% 33.8% 0.2%	19.7% 0.8% 3.6% 0.0% 2.7% 14.2% 34.2% 0.2%	21.3% 0,6% 3.9% 0.0% 2.7% 13.1% 35.0% 0.1%	22.5% 0.4% 4.0% 0.0% 2.7% 12.5% 34.4% 0.1%	22.2% 0.3% 4.3% 0.0% 2.7% 12.9% 33.5% 0.1%	23.8% 0.2% 4.7% 0.0% 2.9% 11.9% 31.0% 0.1% 0.1%	23.8% 0.1% 4.9% 0.0% 2.9% 7.0% 15.5% 0.0% 11.2% 9.0%	25.4% 0.1% 5.3% 0.0% 3.0% 2.1% 2.7% 0.0% 11.0% 22.6%	26.2% 0.2% 5.5% 0.0% 3.0% 1.6% 1.8% 0.0% 6.6% 26.2%	27.6% 0.1% 6.0% 0.0% 3.1% 0.9% 1.2% 0.0% 5.7% 27.4%	0,4 26,9% 1,2% 0,1% 6,3? 0,0% 3,1% 0,6% 0,8% 0,0% 4,65% 28,7% 27,7% 100,0%

OPHTHALMIC NSAIDS SHARE OF TOTAL PRESCRIPTIONS DISPENSED UNITED STATES

		2011				2012				2013		
	Q1	Q2	Q3	Q4	QI	Q2	Q3	Q4	Q1	Q2	Q3	Q4
Iromfenac Sodium												
Xibrom®	13.8%	3.7%	0.8%	0.4%	0.2%	0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Bromday®	13.3%	18.8%	21.6%	23.6%	21.8%	20.0%	18.8%	18.4%	18.4%	15.4%	6.1%	1.5%
Prolensa@		1 39/	2 (9)	1.06/	4 10/	4 40/	4.10/	7 79/	4.10/	2.2%	10.4%	15.6%
Bromfenac Sodium		1.3%	3,6%	4.0%	4,1%	4.4%	4.1%	3.7%	4.1%	4.2%	3.9%	4.1%
Diclofenac Sodium	Mentana -	1000042030	11279/22	10/02/07	100000	12712/2021	1000000000	101000	1212200		1000000000	10010204
Voltaren®	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Diclofenac Sodium	3.2%	3.4%	3.4%	3.3%	3.5%	3.5%	3,6%	3,5%	3.5%	3.6%	3 7%	3,8%
flurbiprofen Sodium												
Ocufen®	0.6%	0.5%	0.4%	0.3%	0.2%	0.2%	0.2%	0.1%	0.1%	0.1%	0.1%	0.1%
Flurbiprofen Sodium	0.6%	0.5%	0.4%	0.3%	0.2%	0.2%	0.2%	0.1%	0.1%	0,1%	0.1%	0.1%
Setorolac Trometh												1000000
Acular®	0.6%	0.5%	0.4%	0.3%	0.2%	0.2%	0.2%	0-1%	0.1%	0.1%	0.1%	0.1%
Acular LS®	0.6%	0.5%	0.4%	0.3%	0.2%	0.2%	0.2%	0.1%	0.1%	0.1%	0.1%	0.1%
Acular PF®	0.0%	0.0%	0,0%	0.0%	100.27	0.0%		100000000				0.0%
Acuvail®	3.7%	2.5%	1,8%	1,5%	1,2%	0.9%	0.8%	0.7%	0.6%	0.5%	0.4%	0.4%
Ketorolac Trometh	31.3%	35.8%	35.1%	34,1%	35,3%	36,7%	36.3%	35.9%	37_1%	38.6%	38.4%	37.1%
Nepafenac		22322		00000000						24.02/		14
Nevanac@	26,5%	25.4%	24.5%	24.7%	25.3%	25.9%	28.1%	29.3%	27.6% 0.1%	24,8% 2.0%	20,9% 7,2%	16 8% 12.0%
llevro@												10,000
lato	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
fotal Xibrom@/Bromday@/Prolensa@	27.1%	22.5%	22.4%	24.0%	22.0%	20.1%	18.8%	18.4%	18.4%	17.6%	16.5%	17.1%
		2014				2015		2013 Q2-				
	Q1	Q2	Q3	Q4	Q1	Q2	Q3	2015 Q3				
Bromfenac Sodium	0.001	0.000	0.0%	0.0%	0.0%			0.0%				
Xibrom®	0.0%	0.0%	0.0%			0.0%	0.0%	2.2%				
Bromday@ Projensa@	0.3%	0.1%	16.7%	0.0%	0.0%	16.7%	16.9%	14.7%				
Bromfenac Sodium	4.5%	4.3%	4.3%	4.2%	3.8%	3.4%	3.3%	4.0%				
	4.3%	4.370	4.378	4.276	3.670	3.470	3.376	4.078				
Diclofenac Sodium	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%				
Voltaren® Diclofenac Sodium	3.8%	3.6%	3.7%	3.7%	3.8%	3.9%	3.8%	3.7%				
	3-0 ⁻ 0	2,0%	3.770	3.176	3.070	3.374	3.076	3.176				
Flurbiprofen Sodium	0.164	0.184	0.157	0.1%	0.1%	0.1%	0.1%	0.1%				
Ocufen® Flurbiprofen Sodium	0.1%	0.1%	0.1%	0.1%	0.1%	0.0%	0.1%	0.1%				
	0.2%	U.1.70	0.170	U.176	0.170	0.076	0.176	0.176				
Ketorolac Trometh	0.104	0.164	0.18/	0.18/	0.19/	0.197	0.167	11.102				
Acular® Acular LS®	0.1%	0.1%	0.1%	0.1%	0.1%	0.1%	0.1%	0.1%				
Acular LS® Acular PF®	0.2%	0.1%	0.170	0.1%	0.170	0.0%	0,170	0.0%				
Acutail®	0.3%	0.3%	0.2%	0.2%	0.2%	0.0%	0.2%	0.3%				
Ketorolac Trometh	37.3%	38.5%	38.5%	38.2%	39.3%	41.0%	40.9%	38.8%				
Vensfense							4 984	10 08/				
	13 8%	11 0%	9.3%	8 0%	6.8%	3 3%	4.8%					
Nevanac@	13.8%	11.0%	9,3% 18-1%	8.0% 19.4%	6.8% 19.5%	5.5%	4,8%	12.0%				
Nevanac® Hevro®	14.4%	16.6%	18-1%	19.4%	19.5%	19.6%	20.2%	15.1%				

Notes & Sources: From IMS Data.

OPHTHALMIC NSAIDS TOTAL EXTENDED UNITS SOLD UNITED STATES

Open Case is Solarian Neurospie P Protatasi Benefinació Solarian Octobre is Solarian Decidande is Solarian De				2005			200	6			200	7	
Nbowk 38,145 89,413 140,573 180,778 304,958 225,565 274,978 297,463 399,978 384,995 406,065 Dendards Anders Dendards Anders 566,345 470,856 314,525 321,403 335,538 315,553 303,413 247,753 247,040 266,910 216,543 Delabelans Solum 566,345 470,856 314,825 321,403 335,538 315,533 303,413 247,753 247,040 266,910 216,543 Delabelans Solum 0,04678 12,135 10,778 9,445 8,445 8,344 7,055 6,565 6,525 6,718 9,171 9,863 24,821 1,013,055 1,013,054 1,013,0			Q2		Q4	QI			Q4	QI			Q4
Valuent® 566,345 470,050 384,525 321,603 335,530 315,553 393,413 287,753 287,040 266,610 Deckelsna 506,145 10,194 6,645 8,465 8,344 7,005 6,965 6,525 6,785 9,176 98,054 Plathprefon Solum 334,444 390,351 134,200 344,703 396,413 334,344 304,375 315,20 226,618 334,349 344,379 344,703 366,514 7,785 43,343 390,160 1,015,305 1,044,820 1,013,305 1,044,820 1,013,305 1,044,820 1,013,335 1,044,820 1,013,305 1,044,820 1,013,305 1,044,820 1,013,305 1,044,820 1,013,305 1,044,820 1,013,305 1,044,820 1,013,305 1,044,820 1,013,305 1,044,820 1,013,305 1,044,820 1,013,305 1,044,820 1,013,305 1,014,60 3,01,144 3,140,31 1,40,205 1,013,305 1,014,00 1,017,31 1,014,01 1,013,305 1,121,144 1,	Xibrom/\$ Bromday:® Prolensa #		38,185	89,415	140,575	180,778	204,958	225,965	274,978	297,463	359,978	386,905	406,605
Concerts 12.185 10.794 5.645 8.465 8.34 7.065 6.685 6.525 6.735 9.1/17 9.84.59 Concerts 338.484 390.331 552.400 341.703 566.955 532.51 532.618 534.399 340.375 Concerts Acutar X 81.123 190.323 776.40 754.230 160.43.53 200.060 1.044.820 1.167.835 1.044.820 1.167.835 1.044.820 1.167.835 1.201.945 1.201.935 1.201.945 1.201.945 1.201.945 1.201.945 1.201.945 1.201.945 1.201.945 1.201.945 1.201.945 1.201.945 1.201.945 1.201.945 1.201.945 1.201.945 1.201.945 1.201.945 1.201.945 1.201.945 1.201.945 1.201.95						321,603	335,530	315,553	303,413	287,753	287,040	266,910	236,543
Constant Acular LSR All 202,003 La72,545 954,714 841,095 844,022 24,4322 24,4322 24,44227 24,44227 24,957 34,719 34,719 34,729 34,729													
Nevnane@i 29,571 264,002 320,007 366,174 362,316 374,373 367,728 411,501 440,526 444,227 Total 3.218,194 3,141,765 3,056,227 2,806,689 3,273,869 3,146,771 3,192,469 3,199,315 3,562,040 3,546,227 3,441,095 Total (Excluding Flarbipofen Sodiam products and Acatal PF%) 2,808,608 2,477,871 2,662,467 2,530,138 2,473,256 2,778,608 2,409,763 2,439,750 3,177,069 3,171,640 3,107,738 Total Schulding Flarbipofen Sodiam products and Acatal PF%) 2,008 2,778,608 2,409,763 2,489,750 3,177,069 3,171,640 3,107,738 Total Schum X 2008 2009 2009 2009 2009 201 Q2 Q3 Q4 Q1 Q2 Q3 Q4 Q4 Q4 Q4 Q4 Q4	Ketorolac Trometa Acular & Acular LS & Acular PF & Acuvail &		1,452,395 \$11,235	1,262,035 895,925	1,072,565 796,540	953,411 754,250	1,102,009 864,585	954,714 920,060	841,695 1,015,305	841,987 1.044,820	950.715 1,167.835	868,354 1,208,945	778,613 1,201,395
Total (Excluding Plurbiprofen Sodium products and Acalar PPS) 2.898,608 2,747,871 2,662,467 2,530,138 2,473,256 2,778,608 2,809,763 2,839,750 3,177,69 3,177,69 3,107,180 2,289,750 3,177,060 3,107,180 3,107,380 2,090,31 1,00,600 2,000				29,571	268,002	320,097	366,174	362,316	374,373	367,728	411,501	440,526	4#4,227
products and Acutar PF%) 2.808.008 2.747.871 2.662.467 2.530,118 2.475,256 2.775,608 2.409,763 2.837,50 3.177.069 3.171.640 3.107.383 Tatal Xibrom40/Bromdoy86/Protemage 33,185 89,415 140,575 110,778 2009 201 20 03 04 Ol O2 O3 O4 O1 O2 O3 O4 O3 O4 O3 O4 O3 O4 O3 O4 O3 O4	Total	2 3	3,218,194	3,141,765	3,056,227	2,896,891	3,273,809	3,146,771	3,192,469	3.199,315	3.562.040	3.546.237	3,481,995
2068 2069 2010 Bromkina: Sodium 421,353 466,373 491,735 514,903 561,450 605,663 627,015 617,313 614,198 686,078 723,000 710,005 Bromkina: Sodium 20068 605,663 627,015 617,313 614,198 686,078 723,000 710,005 28,099 Bromkine: Sodium Dicklone: Sodium 775,510 188,265 53,453 38,963 32,000 28,903 14,200 8,923 7,855 7,230 5,160 4,740 Dicklone: Sodium 175,610 188,125 202,258 196,233 229,443 25,468 26,665 333,013 355,238 347,655 323,013 355,238 352,110 333,858 Planhprofine: Sodium 324,033 355,233 347,313 337,315 322,143 350,510 350,135 344,045 333,013 355,238 352,110 333,858 Accular K 748,093 871,520 784,730 706,653 723,047 110,317 741	Total (Excluding Flurbiprofen Sodium products and Acular PF용)		2.808,608	2,747,871	2,662,467	2,530,138	2,873,256	2,778,608	2,809,763	2,839,750	3,177,069	3.171.640	3,107,383
Q1 Q2 Q3 Q4 Q1 Q2 Q3 Q4 Q1 Q2 Q3 Q4 Withrom® 421,353 466,373 491,735 514,903 561,450 605,663 627,015 617,383 614,198 686,078 723,000 710,905 28,099 BromEnac Sodium Volar:n® BromEnac Sodium 7,855 7,230 5,160 4,740 Diclofenac Sodium 175,610 188,125 202,238 196,233 229,443 237,468 296,605 305,828 394,283 341,118 382,283 387,695 Purbripoten Sodium 175,610 188,125 202,238 196,233 229,443 237,468 256,605 305,828 394,283 341,118 382,283 387,695 32,103 355,233 387,313 337,315 322,143 350,116 3340,045 333,013 355,238 352,110 353,838 Kotolok furthered 64,093 356,33 723,047 810,317 741,209 440,490 156,391<	Total Xibrom@/Bromday@/Prolensa®		38,185	89,415	140,575	180,778	204,958	225,965	274,978	297,463	359.978	386,905	496,605
Q1 Q2 Q3 Q4 Q1 Q2 Q3 Q4 Q1 Q2 Q3 Q4 Withrom® 421,353 466,373 491,735 514,903 561,450 605,663 627,015 617,383 614,198 686,078 723,000 710,905 28,099 BromEnac Sodium Volar:n® BromEnac Sodium 7,855 7,230 5,160 4,740 Diclofenac Sodium 175,610 188,125 202,238 196,233 229,443 237,468 296,605 305,828 394,283 341,118 382,283 387,695 Purbripoten Sodium 175,610 188,125 202,238 196,233 229,443 237,468 256,605 305,828 394,283 341,118 382,283 387,695 32,103 355,233 387,313 337,315 322,143 350,116 3340,045 333,013 355,238 352,110 353,838 Kotolok furthered 64,093 356,33 723,047 810,317 741,209 440,490 156,391<			200	8			200	9			201	0	
Kihrom® 421,353 466,373 491,735 514,903 561,450 605,663 627,015 617,383 614,198 686,078 723,000 710,006 28,009 Bromday® Bromday® Bromday® Bromday® Status		QI			Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4
Voltaron® 136,343 \$\$\$,265 55,453 38,965 32,003 28,903 14,200 \$\$,923 7,855 7,230 5,160 4,740 Dicloience Sodium 175,610 188,125 202,258 196,233 229,843 257,468 256,605 305,828 394,283 341,138 382,283 387,695 Flarbigrotien Sodium 6,710 6,460 6,800 5,980 6,390 4,408 4,468 3,385 3,505 3,418 2,990 3,270 Flurbigrotien Sodium 328,053 335,223 347,313 337,315 322,143 350,510 350,125 344,045 333,013 355,228 352,110 353,830 Ketorolac Trometh 748,093 \$71,520 784,730 706,653 723,047 \$10,317 741,209 440,490 136,391 94,870 742,255 61,090 Accular FN* 748,093 \$71,520 784,730 706,653 723,045 1,303,370 1,466,665 522,650 \$1,240 68,203 553,30	Xibram® Bronday® Prolonsa®	421,353	466,373	491,735	514,903	561,450	605,663	627,015	617,383	614,198	686,078	723,000	
Ocufendit 6.710 6.460 6.800 5.980 6.390 4.408 4.468 3.385 3.505 3.418 2.990 3.270 Flurthprofen Sodium 328.053 355.233 347.313 337.315 322,143 350,516 350,155 344.045 333,013 355.238 352,110 353,830 Ketorolac Trometh Acalark 748,093 871,520 784,730 706,653 723,047 810,317 741,209 440,490 136,391 94,870 74,255 61,090 Acalark 748,093 871,520 784,730 706,653 723,047 810,317 741,209 440,490 136,391 94,870 74,255 61,090 Acalark 1,119,405 1,324,795 1,324,095 1,325,080 1,303,370 1,466,665 522,650 51,424 669,624 599,124 426,196 Action PF # 23,074 23,669 23,405 21,226 23,366 586,051 1,171,537 1,436,621 1,430,881 1,490,409 <													
Ketorolac Trameth Acular K 748,093 871,520 784,730 706,653 723,047 810,317 741,209 440,490 136,391 94,870 742,255 61,090 Acular Ks 1,119,405 1,313,165 1,224,795 1,193,295 1,325,680 23,366 24,720 1,466,665 522,650 \$1,240 66,200 58,695 55,330 Acular PF# 23,074 23,669 23,405 21,226 23,366 24,720 1,466,665 522,650 \$1,240 662,200 58,695 55,330 Acular PF# 23,074 23,669 23,405 21,226 23,366 24,720 1,49,447 1,422 125 29 24 Acuvar M8 Ketorolac Trometh Nscalarnac. 1,430,811 1,490,409 1,436,621 1,430,811 1,490,409 1,436,621 1,430,811 1,490,409 Nevanaces 459,639 538,146 551,238 488,769 525,090 584,883 589,470 618,030 611,646 698,624 699,630 <													
Newmanne 459,639 538,146 551,238 488,769 525,090 584,883 589,470 618,030 611,646 698,742 665,694 699,630 llevrosk 3,418,278 3,850,955 3,685,725 3,503,338 3,748,411 3,970,240 3,988,266 5,317,322 4,695,997 4,359,188 4,294,216 4,221,084 Total Total 3,060,442 3,465,594 3,308,208 3,138,817 3,396,512 3,590,603 3,618,716 4,968,750 4,359,354 4,000,503 3,939,092 3,863,984	Kctorolac Trometh Acular® Acular LS:% Acular PF# Acuval@	748,093 1,119,405	871,520 1,313,165	784,730 1,224,795	706,653 1,193,295	723.047 1.325,080	\$10,317 1,303,370	741,209 1,166,665 14,947	440,490 522,650 1,142 1,599,396	136,391 91,240 125 1,332,204	94,870 66,200 29 669,624	74,255 58,695 24 599,124	55,320 426,096
Total (Excluding Flurbiprofen Sodium products and Acutar PF&) 3,060,442 3,465,594 3,308,208 3,138,817 3,396,512 3,590,603 3,618,716 4,968,750 4,359,354 4,000,503 3,939,092 3,863,984	Nevanac/®	459,639	538,146	551,238	488,769	525,090	584,883	589,470	618,030	611,646	698,742	665,694	699,630
products and Acular PF%) 3,060,442 3,465,594 3,308,208 3,138,817 3,396,512 3,590,603 3,618,716 4,968,750 4,359,354 4,000,503 3,939,092 3,863,984	Total	3,418,278	3,850,955	3,685,725	3,503,338	3,748,411	3,970,240	3,988,266	5,317,322	4,695,997	4,359,188	4,294,216	4,221,084
Total Xibrom/8/Bromdsy@r/Prolensa@ 421,353 466,373 491,735 514,903 561,450 605,663 627,015 617,383 614,198 686,078 723,000 739,004	Total (Excluding Flurbiprofen Sodium products and Acular PF%)	3,060,442	3,465,594	3,308,208	3,138,817	3,396,512	3,590,603	3,618,716	4,968,750	4,359,354	4,000,503	3.939.092	3,863,984
	Total Xibrom%/Bromday®/Prolensa%	421,353	466,373	491,735	514,903	561,450	605,663	627,015	617,383	614,198	686,078	723,000	739,004

OPHTHALMIC NSAIDS TOTAL EXTENDED UNITS SOLD UNITED STATES

QI	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4
428,398	160,843	4,230	1,213	210	20	75	58	296 890	250 973	63.638	2.85
147,747	93,938	102,410	124,030	130,955	140,433	129,740	126,560	141,505	76,597 156,438	243,986 136,985	325,00 159,68
4,250	3,705	3,150	2,695	735	125	10	10				
409,508	488,408	477.305	488,500	451,595	461,905	464,045	473,213	470,368	508,005	512,893	516,18
2.475 339.848	4,938 363,413	4,655 343,318	5,198 357,590	5,900 341,518	6,885 356,430	4,220 361,360	4,298 356,745	3,728 348,120	1,365 370,525	2,118 375,278	1,92 379,74
053636355	19421010344			1002000	12070200						
54,760 44,740	50,546 38,065	45.920 30,940	34,860 22,015	31,425 21,080	32,160 17,065	27,880 16,880	29,500 14,935	33,435 12,365	30.225 11,025	31.830 9,310	32,50 16,92
323,340 1-582,348	248,772 1,943,326	207.588 1,937,433	180,336 1.973,903	158,532 1,861,001	91,692 2,020,807	\$0,820 2,004,809	86,064 2,009,275	77,016 2,049,825	64.765 2.234.284	59.172 2.202.806	55,28 2,101,11
641,415	660,039	631,314	678,738	683,481	730,362	794,757	842,997	774,348 11,762	740,892 32,538	614,724 111,782	504.36 177.28
3,978,829	4,272,539	4,074,091	4.221,599	4,024,661	4,187,038	4,208,381	4,261,009	4,219,362	4.477,582	4.394.522	4,272,90
3,636,506	3,904,188	3,726,118	3,858,811	3,677,243	3,823,723	3,842,801	3,899,966	3,867,514	4,105,692	4,017,126	3.891.23
576,145	377,389	290,058	353,734	338,439	329,174	323,860	317,412	296,890	327.520	337,624	327,89
	201	4			2015		2013 02 -				
01	Q2		Q4	QI	Q2	Q3	2015 Q3				
294	100	20				10	347,878				
351.899	395,300	400,754	398,494	396,020	436,649	453,386	3,478,086				
167 443	145 296	132,154	138 000	171 686	122 586	98,294	1.378.562				
101,443	14-4230		150,000	121,000							
107,445	140,200		132,000	121,000							
502,688	\$35,093	560,708	543,855	551,910	596,713	750,280	5,578,333				
502,688	\$35.093	560,708	543,855	551,910	596,713	750,280	5,578,333				
502.688 1,233	535.093 1,638	560,708	543,855	551,910	596,713 1,820	750,280 1,813	5,578,333				
502,688	\$35,093	560,708	543,855	551,910	596,713	750,280	5,578,333				
502.688 1,233	535.093 1,638	560,708	543,855	551,910 1,553 383,595 31,170	596,713 1,820 413,898 28,355	750,280 1,813 396,418 27,680	5,578,333 16,568 3,812,005 316,270				
502.688 1,233 374,838	535.093 1,638 379,518	560,708 1,755 373.435	543,855 1,348 364,760	551,910 1,553 383,595	596,713 1,820 413,898	750,280 1,813 396,418	5,578,333 16,568 3,812,005				
502,688 1,233 374,838 36,470 26,335	535,093 1,638 379,518 35,605 20,425	560,708 1,755 373,435 32,395 22,160	543,855 1,348 364,760 30,035 14,360	551,910 1,553 383,595 31,170 12,720	596,713 1,820 413,898 28,355 11,050	750,280 1,813 396,418 27,680 13,180	5,578,333 16,568 3,812,005 316,270 157,485			*	
502.688 1,233 374,838 36,470	535,093 1,638 379,518 35,605	560,708 1,755 373,435 32,395	543,855 1,348 364,760 30,035	551,910 1,553 383,595 31,170	596,713 1,820 413,898 28,355	750,280 1,813 396,418 27,680	5,578,333 16,568 3,812,005 316,270			*	
502.688 1,233 374.838 36,470 26,335 51,888 2,097,863	535,093 1,638 379,518 35,605 20,425 45,744 2,047,418	560,708 1,755 373,435 32,395 22,160 42,600 2,291,024	543,855 1,348 364,760 30,035 14,360 38,832 2,155,104	551,910 1,553 383,595 31,170 12,720 34,489 2,280,242	596,713 1,820 413,898 28,355 11,050 30,732 2,474,306	750,280 1,813 396,418 27,680 13,180 28,512 2,476,162	5,578,333 16,568 3,812,005 316,270 157,485 452,018 22,360,324			*	
502.688 1.233 374.838 36.470 26,335 51,888 2,097,863 397,134	535,093 1,638 379,518 35,605 20,425 45,744 2,047,418 353,421	560,708 1,755 373,435 32,395 22,160 42,600 2,291,024 313,089	543,855 1,348 364,760 30,035 14,360 38,832 2,155,104 268,098	551,910 1,553 383,595 31,170 12,720 34,489 2,280,242 215,124	596,713 1,820 413,898 28,355 11,050 30,732 2,474,306 191,073	750,280 1,813 396,418 27,680 13,180 28,512 2,476,162 176,070	5,578,333 16,568 3,812,005 316,270 157,485 452,018 22,360,324 3,773,994				
502.688 1.233 374.838 36.470 26.335 51,888 2,097,863 397,134 217,877	535,093 1,638 379,518 35,605 20,425 45,744 2,047,418 353,421 277,700	560,708 1,755 373,435 32,395 22,160 42,600 2,291,024 313,089 309,477	543,855 1,348 364,760 30,035 14,360 38,832 2,155,104 268,098 347,156	551,910 1,553 383,595 31,170 12,720 34,489 2,280,242 215,124 337,635	596,713 1,820 413,898 28,355 11,050 30,732 2,474,306 191,073 363,891	750,280 1,813 396,418 27,680 13,180 28,512 2,476,162 176,070 379,296	5,578,333 16,568 3,812,005 316,270 157,485 452,018 22,360,324 3,773,994 2,554,635				
502.688 1.233 374.838 36.470 26,335 51,888 2,097,863 397,134	535,093 1,638 379,518 35,605 20,425 45,744 2,047,418 353,421	560,708 1,755 373,435 32,395 22,160 42,600 2,291,024 313,089	543,855 1,348 364,760 30,035 14,360 38,832 2,155,104 268,098	551,910 1,553 383,595 31,170 12,720 34,489 2,280,242 215,124	596,713 1,820 413,898 28,355 11,050 30,732 2,474,306 191,073	750,280 1,813 396,418 27,680 13,180 28,512 2,476,162 176,070	5,578,333 16,568 3,812,005 316,270 157,485 452,018 22,360,324 3,773,994				
502.688 1.233 374.838 36.470 26.335 51,888 2,097,863 397,134 217,877	535,093 1,638 379,518 35,605 20,425 45,744 2,047,418 353,421 277,700	560,708 1,755 373,435 32,395 22,160 42,600 2,291,024 313,089 309,477	543,855 1,348 364,760 30,035 14,360 38,832 2,155,104 268,098 347,156	551,910 1,553 383,595 31,170 12,720 34,489 2,280,242 215,124 337,635	596,713 1,820 413,898 28,355 11,050 30,732 2,474,306 191,073 363,891	750,280 1,813 396,418 27,680 13,180 28,512 2,476,162 176,070 379,296	5,578,333 16,568 3,812,005 316,270 157,485 452,018 22,360,324 3,773,994 2,554,635				
	4,250 409,508 2,475 339,848 54,760 44,740 323,340 1,582,348 641,415 3,978,829 3,636,506 576,145 Q1 294 351,899	Q1 Q2 428,398 160,843 147,747 216,546 93,938 93,938 4,250 3,705 409,508 488,408 2,475 4,938 339,848 363,413 54,760 50,546 44,740 38,065 323,340 248,772 1,582,348 1.943,326 641,415 660,039 3,636,506 3,904,188 576,145 377,389 Q1 Q2 294 100	Q1 Q2 Q3 428,398 160,843 4,230 147,747 216,546 285,828 93,938 102,410 4,250 3,705 3,150 409,508 488,408 477,305 2,475 4,938 4,655 339,848 363,413 343,318 54,760 50,546 45,920 44,740 38,065 30,940 323,340 248,772 207,588 1.582,348 1,943,326 1,937,433 641,415 660,039 631,314 3,978,829 4,272,539 4,074,091 3,636,506 3,904,188 3,726,118 576,145 377,389 290,058 2014 Q1 Q2 Q3 254 100 20 351,899 395,300 400,754	$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$

<u>Notes & Sources:</u> Extended units are defined as the number of milliliters of liquid sold. (Ex. 2192.) From IMS Data.

OPHTHALMIC NSAIDS AVERAGE SELLING PRICE PER PRESCRIPTION - UNITED STATES

2005 2006 Q2 Q3 Q4 Q1 Q2 Q3 Q4 Storom % \$953.02 \$96.85 \$89.08 \$104.58 \$123.68 \$111.01 \$108.35	-	200		
	Q1	Q2	Q3	Q4
Altomay® Protess® Bromday®	\$105.56	\$107.26	\$104.92	\$107.51
Diclofenac Sodium Voltaren® \$69.31 \$70.17 \$70.42 \$77,64 \$81.65 \$79,44 \$79,91 Diclofenac Sodium \$92.35 \$279.09 \$89,53	\$92,35	\$96.35	\$94.58	\$94.38
Flurbiprofen Sodium	\$187.22 \$36.26	\$226.17 \$36.26	\$217.92 \$33.16	\$240.00 \$32.62
Ketorolac Trometh \$80.47 \$80.46 \$81.79 \$87.95 \$90.08 \$89.35 \$88.29 Acular X \$62.86 \$64.58 \$63.47 \$67.63 \$66.91 \$67.86 \$69.78 Acular P7% \$157.39 \$151.33 \$163.05 \$112.30 \$202.52 \$199.25 \$212.22 Acurar W0 Ketorolac Trometh \$163.05 \$112.30 \$202.52 \$199.25 \$212.22	\$94.47 \$70.24 \$212.90	\$98.66 \$73.53 \$200.16	\$102 12 \$74.95 \$221.70	\$99.80 \$73.36 \$220.51
Nepalense Nevanze® \$254.02 \$87.56 \$74.41 \$70.14 \$67.54 \$67.79 Ilev ro%	\$69.21	\$71.90	\$72,19	\$73,81
Total \$73.26 \$73.81 \$75.04 \$78.12 \$80.69 \$78.08 \$78.57	\$80,69	\$84,09	\$84.45	\$84,00
Total (Excluding Flurbiprofen Sodium products and Acular PF%) \$73.57 \$74.28 \$75.49 \$78.83 \$81.13 \$78.64 \$79.07	\$81.56	\$85.05	\$85,53	\$85.11
		A1.8	\$104.92	\$107.51
Totał Xibrom@/Bromday@/Prolensa@ \$953.02 \$96.85 \$89.08 \$104.58 \$123.68 \$111.01 \$108.35	\$105.56	\$107.26	3104.92	\$107.31
Total Xibrom &/Bromday@/Prolensa@ \$953.02 \$96.85 \$89.08 \$104.58 \$123.68 \$111.01 \$108.35	\$105.56	\$107.26		3107,31
Total Xibrom &/Bromday &/Prolensa & \$953.02 \$96.85 \$89.08 \$104.58 \$123.68 \$111.01 \$108.35 2008 2009 Q1 Q2 Q3 Q4 Q1 Q2 Q3 Q4	\$105.56			_Q4
Total Xibrom &/Bromday @/Prolensa@ \$953.02 \$96.85 \$89.08 \$104.58 \$123.68 \$111.01 \$108.35 2008 2009 <		20	10	Q4 \$175.35
Zordat Xibrom &/Bromday@/Prolensa@ \$953.02 \$96.85 \$89.08 \$104.58 \$123.68 \$111.01 \$108.35 Brom/Ense Sodium 2008 2009 <td>Q1</td> <td>20 2</td> <td>Q3</td> <td>Q4 \$175.35 \$226.19 \$117.84</td>	Q1	20 2	Q3	Q4 \$175.35 \$226.19 \$117.84
Total Xibrom %/Bromday@/Prolensa@ \$953.02 \$968.85 \$89.08 \$104.58 \$123.68 \$111.01 \$108.35 2008 2009 <	Q1 \$162.90 \$195.30	Q2 \$169.14 \$83.99	Q3 \$168.70 \$115.22	Q4 \$175.35 \$226.19 \$117.84 \$13.91 \$273.67
Total Xibrom &/Bromday @/Prolensa @ \$953.02 \$963.85 \$89.08 \$104.58 \$123.68 \$111.01 \$108.35 2008 2009	Q1 \$162.90 \$195.30 \$23.26 \$252.18	Q2 Q2 \$169.14 \$16.03 \$232.05	Q3 \$168.70 \$115.22 \$14.62 \$241.36	
System System System State	Q1 \$162.90 \$195.30 \$23.26 \$252.18 \$24.30 \$145.86 \$87.36 \$18.98 \$167.80	20 Q2 \$169.14 \$\$3.99 \$16.03 \$232.05 \$232.91 \$127.82 \$\$3.65 \$9.85 \$9.85 \$127.71	Q3 \$168.70 \$115.22 \$14.62 \$241.36 \$21.94 \$162.66 \$115.36 \$40.20 \$131.34	Q4 \$175.35 \$226.19 \$117.84 \$13.91 \$273.67 \$21.88 \$183.78 \$166.41 \$113.63
Total Xibrom &/Bromday@/Prolensa@ \$953.02 \$963.82 \$89.08 \$104.58 \$123.68 \$111.01 \$108.35 2008 2009 <	Q1 \$162.90 \$23.26 \$252.18 \$24.30 \$145.86 \$87.36 \$18.98 \$16.91	20 Q2 \$169.14 \$16.03 \$232.05 \$23.91 \$127.82 \$83.65 \$9.85 \$127.71 \$15.49	Q3 \$168.70 \$168.70 \$115.22 \$14.62 \$241.36 \$21.94 \$162.66 \$115.36 \$40.20 \$131.34 \$14.24	Q4 \$175.35 \$226.19 \$117.84 \$13.91 \$273.67 \$21.88 \$183.78 \$166.41 \$113.63 \$13.63
Total Xibrom &/Bromday@/Prolensa@ \$953.02 \$963.82 \$89.08 \$104.58 \$123.68 \$111.01 \$108.35 2008 2008 2009 <	Q1 \$162.90 \$195.30 \$23.26 \$252.18 \$24.30 \$145.86 \$87.36 \$18.98 \$16.780 \$16.91 \$103.79	20 Q2 \$169.14 \$16.03 \$232.05 \$23.91 \$127.82 \$83.65 \$9.85 \$127.71 \$15.49 \$104.15	Q3 \$168.70 \$115.22 \$14.62 \$241.36 \$21.94 \$162.66 \$115.36 \$40.20 \$131.34 \$14.24 \$105.32	Q4 \$175.35 \$226.19 \$117.84 \$13.91 \$273.67 \$21.88 \$183.78 \$166.41 \$113.63 \$13.63 \$13.63 \$13.44

OPHTHALMIC NSAIDS AVERAGE SELLING PRICE PER PRESCRIPTION UNITED STATES

Optimizandis Golumi Q1 Q2 Q3 Q4 Q1 Q3 Q3 Q4 Q1 Q3 Q3 Q4 Q1 Q3 Q4 Q3 Q4 Q3 Q4 Q3 Q4 Q3 Q4 Q3 Q4 Q3 Q4 <th></th> <th></th> <th>201</th> <th>1</th> <th></th> <th></th> <th>201</th> <th>2</th> <th></th> <th></th> <th>201</th> <th></th> <th></th>			201	1			201	2			201		
Nommins \$213.83 \$277.12 \$315.33 \$16.00 \$63.35 \$11.44 \$157.64 \$177.14 \$177.45 \$		QI	Q2	Q3	Q4	Q1			Q4	QI	Q2	Q3	Q4
Brandmack Sadam SBI 98 S145.79 S153.30 S144.78 S144.69 S165.77 S100 64 S174.37 S162.32 S173 Valuewike S13.66 S12.24 S10.67 S100.61 S75.83 S24.67 S737 S11.67 S10.64 S174 S10.64 S10.85 S10.70 S10.91 S10.85 S10.70 S10.91 S59.57 S9.62 S9.16 S1 Deckedwa S00.64 S12.62 S13.74 S17.79 S15.57 S16.57 S10.94 S18.84 S14.72 S15.75 S287.35 S14.94 S14.82 S14.81 S14.82 S14.83 S14.82 S14.82 S14.82 S14.82 S14.82 S14.8	Xibrom/N Bromday®									\$177.72			\$18.5
Voluenski Decklens, Sodium S113,6 S112,65 S112,64 S110,71 S112,00 S73,7 S11,71 S112,00 S110,71 S112,00 S111,71 S112,00 S111,71 S112,00 S111,11 S110,00 S12,12,3 S14,42 S114,42 S114,43 S114,43 S114,43<			\$381.98	\$145.79	\$153.50	\$153.30	\$148.78	\$143.69	\$165.77	\$169.64			\$157 J \$173 J
Dackbarden \$13.86 \$11.78 \$12.69 \$10.78 \$10.70 \$10.91 \$9.97 \$9.97 \$9.72 \$9.74 \$9.74 \$9.74 \$9.75 \$9.77 \$9.75		8126.26	P125.24	2107.71	£100 (1)	PTE 0.7	839 /7	67.07	e11.77				
Ouclam® \$118.645 \$27.42 \$23.682 \$403.55 \$361.42 \$34.83 \$367.55 \$397.58 \$457.42 \$11.41 \$11.141 \$11.141 \$11.141 \$11.141 \$11.141 \$11.141										\$9,87	\$9,62	\$9,16	\$8.5
Purtuppoints Sodium \$22,162 \$12,84 \$17,58 \$15,59 \$14,59 \$14,45 \$14,42 \$14,43 \$14,42 \$14,42 \$14,43 \$14,43 \$14,43 \$14,43 \$14,43 \$14,43 \$14,43 \$14,43 \$14,43	Flurbiprofen Sodium												
Caronal Transmith S219 50 S211 25 S248 59 S277 56 S318 09 S341 22 S331 65 S221 23 S464 66 S477 65 S200 97 S270 2 S228 55 S221 23 S464 66 S477 65 S200 97 S224 22 S266 58 S3787 Acutar PF9 S110 55 S121 85 S140 52 S127 70 S133 05 S110 97 S108 32 S196 54 S198 56 S228 32 S225 45 S226 51 S106 51 S100 5 S100 21 S22 S225 54 S226 51 S100 45 S102 1 S228 32 S225 34 S120 10 S102 1 S112 1 S14 51 S103 50 S112 2 S102 1 S113 50 <td></td>													
Acularity S210 90 S211.25 S24.8 9 S267.56 S318.09 S374.00 S212.25 S46.46 S477.05 S22.09 S578 Acular LSS S114.42 S117.42 S112.92 S22.352 S255.45 S22.251 S20.77 S234.22 S10.71 S10.852 S196.54 S196.25 S166.55 S141.4		521.02	320.26	317.84	317.98	313.37	\$13,39	314.35	314-92	314.70	314.02	314.42	313.
Acutar (Sa% Acutar)PF% Acutar		\$219.90	\$211.25	\$248.59	\$267.56	\$318.09	\$343.22	\$331.03	\$321.23	\$464,68	\$477.05	\$520.99	\$578
Acumaliti \$114.35 \$121.89 \$121.89 \$121.89 \$121.89 \$124.29 \$139.97 \$166.32 \$196.54 \$198.96 \$222.326 \$222.32 \$21.43 \$114.35 \$114.43 \$114.35	Acular LS&			\$211.42	\$177.42	\$212.92	\$223,92	\$255.45	\$252,61	\$269.73	\$234.22	\$268.58	\$389
Katerolog Trongh \$13.61 \$13.65 \$12.76 \$13.20 \$11.18 \$10.95 \$11.90 \$10.71 \$10.31 \$10.43 \$10.21 \$99 Negafance Nevaace* \$130.98 \$130.24 \$129.57 \$132.84 \$130.00 \$132.27 \$133.50 \$137.21 \$148.73 \$149.20 \$145.80 \$143.80 Browske \$100.24 \$52.24 \$81.51 \$73.37 \$82.72 \$84.72 \$85.12 \$86.64 \$88.83 \$91.89 \$88.87 \$93.87 \$93.17 Total \$2014 \$212.62 \$145.16 \$155.86 \$170.70 \$173.70 \$178.62 \$177.63 \$178.43 \$166.30 \$144 Total \$2014 \$2015 \$2013 \$178.62 \$177.63 \$178.43 \$166.30 \$144 Total Xibromdy@t/Protemas@ \$207.3 \$10.23 \$6.76 \$173.70 \$178.62 \$178.43 \$166.30 \$144 Total Xibromdy@t \$123.45 \$172.43 \$167.44 \$129.45 \$189.26 \$182.52		\$114.35	\$121.89	\$149.52	\$157,70	\$163.73	\$124.29	\$139.57	\$168.52	\$196.54	\$198.96	\$223.26	\$225
Normacki Ilevinos S130.98 S130.24 S122.957 S132.84 S131.00 S132.27 S133.50 S137.21 S144.30 S149.20 S145.80 S149.50 S144.10 S131.10 Total S92.24 S81.51 S75.37 S83.51 S82.28 S82.68 S83.83 S66.34 S89.12 S85.65 S81.31 S77 Total Chulding Flurbiprofen Sodium products and Acutar PF.80) S94.61 S83.57 S77.37 S85.72 S84.72 S85.12 S86.64 S88.93 S91.80 S88.27 S83.83 S165.35 S114.1.0 S113.00 S178.62 S177.63 S178.43 S166.30 S144 Total Xibrom&/Bromday@Protensize S10.23 S6.76 S173.70 S178.62 S177.63 S178.43 S166.30 S144.0 S13.00 Bromfenec Sodium S122.45 S173.88 S177.14 S168.10 S182.92 S183.00 S178.43 S166.30 S164.30 S164.30 S164.30 S164.30 S164.30 S164.30 S164.30 S178.35 S173.35<										\$10.31	\$10.43	\$10.21	\$9
Bit road Stock	Nepafenac			B100 15	0100.04	0121.00	0100.00	0123.50	0127-21	E140 71	6140.20	00.3410	\$145
Contact Contact Contact Contact State		\$130.98	\$130.24	\$129.57	\$152,84	3131.00	\$132.27	\$133,50	\$137.21				\$131
products and Acutar PFW) \$94.61 \$83.67 \$77.37 \$85.72 \$84.22 \$86.41 \$84.93 \$91.80 \$88.27 \$83.87 \$81 Total Xibrom@/Bromday@/Prolemar@ \$165.95 \$141.49 \$123.62 \$145.16 \$155.86 \$170.0 \$173.70 \$178.62 \$178.43 \$166.30 \$144 Coll O2 Q3 Q4 Q1 Q2 201 Q2 201 Q2 201 Q2 201 Q3 2016 \$178.63 \$178.63 \$165.96 \$103.02 - 201 Q2 Q3 Q4 Q1 Q2 Q3 Q1 Q2 Q3 2015 \$178.63 \$177.61 \$188.25 \$177.61 <td>Total</td> <td>\$92.24</td> <td>\$8151</td> <td>\$75.37</td> <td>\$83.51</td> <td>\$82.28</td> <td>\$82,68</td> <td>\$83.83</td> <td>\$86.34</td> <td>\$89.12</td> <td>\$85.65</td> <td>\$81.31</td> <td>\$78</td>	Total	\$92.24	\$8151	\$75.37	\$83.51	\$82.28	\$82,68	\$83.83	\$86.34	\$89.12	\$85.65	\$81.31	\$78
Total Xibrom 8//Prodexs # \$165,95 \$141.49 \$123.62 \$145.16 \$155.86 \$170.70 \$178.62 \$177.63 \$178.43 \$166.30 \$144 2014 2015 2013 Q2 - 2015 Q3 2014 Q2 2015 Q3 2015 Q3 2014 Q3 2015 Q3 2016 Q3 2015 Q3		\$94.61	\$83.67	\$77.37	\$85,72	\$84.72	\$85.12	\$86.41	\$88,93	\$91.80	\$88,27	\$83,87	\$81
Q1 Q2 Q3 Q4 Q1 Q2 Q3 2015 Q3 Bromfinac Sodium Xibron% \$9.73 \$10.23 \$6.76 \$189.36 \$182.52 \$151.60 Bromfinac Sodium \$202.89 \$154.40 \$129.45 \$137.38 \$128.92 \$128.92 \$154.61 \$175.87 Bromfinac Sodium \$202.89 \$154.40 \$129.45 \$137.38 \$128.92 \$129.01 \$113.88 \$151.33 Dielofenac Sodium \$202.89 \$154.40 \$129.45 \$137.38 \$128.92 \$129.01 \$113.88 \$151.33 Dielofenac Sodium \$202.89 \$568.86 \$893.07 \$436.26 \$434.89 \$477.71 \$918.42 \$490.40 Flurbiprofen Sodium \$13.83 \$12.95 \$12.34 \$12.41 \$13.35 \$13.01 \$12.32 \$13.27 Ketorolac Trometh Aculark \$567.86 \$464.25 \$503.26 \$681.94 \$491.11 \$532.29 \$542.66 Aculark \$2648.04 \$13.47.71 \$393.77 \$546.89				\$123.62	\$145.16	\$155.86	\$170.70	\$173.70	\$178.62	\$177.63	\$178.43	\$166.30	\$144
Q1 Q2 Q3 Q4 Q1 Q2 Q3 2015 Q3 Bromfenac Sodium Memoday® \$9.73 \$10.23 \$6.76 \$189.36 \$182.52 \$151.84.61 \$175.87 Bromfenac Sodium \$202.89 \$154.40 \$129.45 \$137.38 \$128.92 \$128.93 \$151.33 Dielofenac Sodium \$202.89 \$154.40 \$129.45 \$137.38 \$128.92 \$129.01 \$113.88 \$151.33 Dielofenac Sodium \$202.89 \$154.40 \$129.45 \$137.38 \$128.92 \$129.01 \$113.88 \$151.33 Dielofenac Sodium \$202.89 \$154.40 \$129.45 \$137.38 \$128.92 \$129.01 \$113.88 \$151.33 Dielofenac Sodium \$8.14 \$755 \$6.99 \$6.77 \$6.89 \$6.37 \$8.15 \$7.79 Flurbiprofen Sodium \$13.83 \$12.95 \$12.34 \$12.41 \$13.35 \$13.01 \$12.32 \$13.27 Acular & Acular IS* \$5648.64 \$567.86 \$464.25 \$503.26			201	à			2015		2013 02 -				
Kilicomik N/M* Bromday@ \$9.73 \$10.23 \$6.76 \$50.92 \$13.00 Proknsa% \$172.35 \$173.88 \$171.41 \$168.10 \$189.36 \$182.52 \$184.61 \$175.87 Bromdrace Sodium \$202.89 \$154.40 \$129.45 \$13.738 \$128.92 \$129.01 \$113.88 \$151.33 Diclofenac Sodium Voltacr.n% Voltacr.n% N/M* \$10.23 \$6.77 \$6.89 \$6.37 \$8.15 \$7.79 Plurbiprofen Sodium \$8.14 \$7.55 \$6.90 \$436.26 \$434.89 \$477.71 \$918.42 \$490.40 Coulon& \$13.83 \$12.95 \$12.34 \$12.41 \$13.35 \$13.20 \$13.27 Kctorolac Trometh \$13.83 \$12.95 \$15.24 \$13.35 \$18.15 \$148.62 \$490.40 Acular & Acular LS & Acul		Q1			Q4	Q1		Q3					
Branday® \$9.73 \$10.23 \$6.76 \$50.92 \$13.80 Prolensa% \$172.35 \$173.88 \$171.41 \$168.10 \$189.36 \$184.61 \$175.87 BromEnsa% \$202.89 \$154.40 \$129.45 \$137.38 \$128.92 \$129.01 \$113.88 \$1175.87 Dielofenac Sodium Voltaren% Dielofenac Sodium \$8.14 \$7.55 \$6.90 \$6.77 \$6.89 \$6.37 \$8.15 \$7.79 Flurbiprofen Sodium \$13.83 \$12.95 \$12.41 \$13.35 \$117.11 \$518.42 \$490.40 Coulen® \$366.97 \$568.86 \$893.07 \$436.26 \$434.89 \$477.71 \$918.42 \$490.40 Steorolar Tometh Acular LS* \$355.69 \$409.61 \$347.71 \$93.77 \$546.89 \$533.13 \$12.32 \$132.30 Acular LS* \$355.69 \$409.61 \$347.71 \$93.77 \$546.89 \$533.13 \$14.87 Acular LS* \$313.73 \$13.83 \$15.24 \$16.78									N/M*				
Prolensa % \$172.35 \$173.88 \$171.41 \$168.10 \$189.36 \$182.52 \$184.61 \$175.87 Bromfenes Sodium \$202.89 \$154.40 \$129.45 \$137.38 \$128.92 \$129.01 \$113.88 \$151.33 Dielofenae Sodium Voltaren% N/M* N/M* N/M* N/M* Dielofenae Sodium \$8,14 \$7.55 \$6.90 \$6.77 \$6.89 \$6.37 \$8.15 \$7.79 Flurbiprofen Sodium \$13.83 \$12.95 \$12.34 \$12.41 \$13.35 \$18.15 \$57.79 Couleon® \$369.97 \$568.86 \$893.07 \$436.26 \$434.89 \$477.71 \$918.42 \$490.40 Flurbiprofen Sodium \$13.83 \$12.95 \$12.34 \$12.41 \$13.35 \$13.01 \$12.32 \$13.27 Ketorolae Trometh Acular DA \$648.04 \$567.86 \$464.25 \$503.26 \$681.94 \$491.11 \$532.29 \$542.66 Acular DA \$648.04 \$167.85 \$247.83 \$30.163 \$313.65 \$331.73 \$228.30 Acular DA \$648.04		\$9.73	\$10.23	\$6.76				\$50.92					
Diclofenac Sodium Voltror.n% N/M* Diclofenac Sodium Diclofenac Sodium \$8,14 \$7,55 \$6,90 \$6,77 \$6,89 \$6,37 \$8,15 \$7,79 Plavbiprofen Sodium Ocufen® \$369,97 \$568,86 \$893,07 \$436,26 \$434,89 \$477,71 \$918,42 \$490,40 Coufen® \$369,97 \$568,86 \$893,07 \$436,26 \$434,89 \$477,71 \$918,42 \$490,40 Coufen® \$313,83 \$12,95 \$12,34 \$13,35 \$12,32 \$13,232 \$13,232 Acular% \$648,04 \$567,86 \$464,25 \$503,26 \$668,194 \$491,11 \$532,29 \$\$42,66 Acular% \$3409,61 \$347,71 \$393,77 \$\$46,89 \$565,00 \$855,10 \$100,40 Acular% \$3409,61 \$347,71 \$393,77 \$\$46,89 \$565,00 \$100,40 \$100,46 \$100,46 \$100,46 \$100,46 \$100,46 \$148,87 \$100,46 \$18,85,31 \$100,46 \$148,7 \$100,46 \$148,7 \$100,46		\$172.35	\$173.88										
Voltaren % Dieloferaes Sodium S8,14 \$75.5 \$6.90 \$6.77 \$6.89 \$6.37 \$8.15 \$7.79 Plurbiprofen Sodium Coulen® \$369.97 \$568.86 \$893.07 \$436.26 \$434.89 \$477.71 \$918.42 \$490.40 Flurbiprofen Sodium \$13.83 \$12.95 \$12.34 \$12.41 \$13.35 \$13.01 \$12.32 \$13.27 Ketorolac Trometh Acular DF \$5648.04 \$567.86 \$464.25 \$503.26 \$681.94 \$5491.11 \$532.29 \$542.66 Acular DF & Acular DF & Acular DF & Acular DF & Acular DF & Acular DF & Acurai@ \$283.98 \$281.75 \$283.87 \$278.83 \$301.63 \$313.65 \$333.73 \$258.30 Ketorolac Trometh Acurai@ \$13.37 \$13.60 \$15.24 \$16.78 \$20.14 \$19.26 \$385.31 Acura DF & Ketorolac Trometh \$13.37 \$13.60 \$15.24 \$16.78 \$20.14 \$19.26 \$18.15 \$14.87 Negatemac \$158.06 \$159.77 \$179.36 \$191.89 \$206.89 \$235.78 \$241.99		\$202.89	\$154.40	\$129.45	\$137.38	\$128.92	\$129.01	\$113,88	\$151.33				
Diclofenac Sodium S8,14 \$7,55 \$6,90 \$6,77 \$6,89 \$6,37 \$8,15 \$7,79 Plucbiprofen Sodium Ocufen® \$369,97 \$568,86 \$893.07 \$436.26 \$434,89 \$477,71 \$918.42 \$490.40 Flurbiprofen Sodium \$13,83 \$12,95 \$12,34 \$12,41 \$13,35 \$13,01 \$12,32 \$13,27 Keitorolac Trometh Acular LS4: \$567,86 \$464,25 \$503.26 \$6681.94 \$491.11 \$532.29 \$542.66 Acular S4: \$648,04 \$567,86 \$464.25 \$503.26 \$6681.94 \$491.11 \$533.279 \$542.66 Acular S4: \$563,80 \$228.175 \$283.87 \$278.83 \$301.63 \$313.65 \$335.31 N/M* Acular DF% \$13.37 \$13.60 \$151.77 \$179.56 \$191.89 \$206.89 \$231.75 \$258.30 Ketorolac Trometh \$153.72 \$154.37 \$163.21 \$172.97 \$186.04 \$200.62 \$181.15 \$14.87 Nepa									N/M*				
Ocucion® \$369.97 \$568.86 \$893.07 \$436.26 \$434.89 \$477.71 \$918.42 \$490.40 Flurbiprofen Sodium \$13.83 \$12.95 \$12.34 \$12.41 \$13.33 \$13.232 \$13.232 \$13.232 \$13.232 Acular® \$648.04 \$567.86 \$464.25 \$503.26 \$668.194 \$491.11 \$533.29 \$542.66 Acular® \$648.04 \$567.86 \$464.25 \$503.26 \$668.194 \$491.11 \$533.29 \$542.66 Acular LS.% \$355.69 \$409.61 \$347.71 \$393.77 \$546.89 \$565.00 \$542.66 Acular DF& \$409.61 \$347.71 \$393.77 \$546.89 \$565.00 \$542.66 Acutar DF & \$347.71 \$393.77 \$546.89 \$565.00 \$542.66 Acutar DS \$283.98 \$281.75 \$283.87 \$27.8.83 \$301.63 \$313.65 \$331.73 \$22.830 Ketorolac Trometh \$153.72 \$157.97 \$17.9.56 \$191.89 \$206.89 \$22.57.78 </td <td></td> <td>\$8,14</td> <td>\$7.55</td> <td>\$6.90</td> <td>\$6,77</td> <td>\$6.89</td> <td>\$6.37</td> <td>\$8,15</td> <td></td> <td></td> <td></td> <td></td> <td></td>		\$8,14	\$7.55	\$6.90	\$6,77	\$6.89	\$6.37	\$8,15					
Flurbiprofen Sodium \$13.83 \$12.95 \$12.34 \$12.41 \$13.35 \$13.01 \$12.32 \$13.27 Ketorolac Trometh Acular® S648.04 \$567.86 \$464.25 \$503.26 \$681.94 \$491.11 \$532.29 \$542.66 Acular® S409.61 \$347.71 \$393.77 \$546.89 \$567.80 \$335.31 N/M* Acular PF% Acuvai@ \$283.98 \$281.75 \$283.87 \$278.83 \$301.63 \$313.65 \$331.73 \$258.30 Ketorolac Trometh \$13.37 \$13.60 \$15.24 \$16.78 \$20.14 \$19.26 \$18.15 \$14.87 Nepafenac Nevmac% \$158.06 \$159.77 \$179.56 \$191.89 \$206.89 \$235.78 \$241.99 \$166.70 Ilevro% \$159.07 \$159.67 \$163.21 \$172.92 \$98.12 \$97.38 \$97.38 \$89.74 Total \$200.13 \$86.76 \$88.79 \$98.12 \$97.38 \$97.38 \$93.73 \$89.74 Total (Excluding Flurbiprofen Sod		123103-02		12020100				ACTO 10	B400.40				
Ketorolac Trometh S648.04 \$567.86 \$464.25 \$503.26 \$681.94 \$491.11 \$5332.29 \$542.66 Acular K S355.69 \$409.61 \$347.71 \$393.77 \$546.89 \$569.80 \$5332.29 \$542.66 Acular LS K S355.69 \$409.61 \$347.71 \$393.77 \$546.89 \$569.80 \$563.00 \$385.31 Acular JP K Acular JP K S283.98 \$281.75 \$283.87 \$278.83 \$301.63 \$313.65 \$331.73 \$228.30 Nepademac Nepademac Nepademac \$15.24 \$16.78 \$20.14 \$19.26 \$18.15 \$14.87 Nepademac \$15.75 \$159.77 \$179.56 \$191.89 \$206.89 \$220.83 \$241.99 \$166.70 Ilevrolk \$153.72 \$15.24 \$172.97 \$186.04 \$200.62 \$202.83 \$241.29 \$172.49 Total \$90.13 \$86.76 \$88.79 \$92.23 \$98.12 \$97.38 \$99.738 \$89.74 Total (Excluding Flurbiprofen													
Acular/s S648.04 \$567.86 \$464.25 \$503.26 \$681.94 \$491.11 \$532.29 \$542.66 Acular/s S355.69 \$409.61 \$337.71 \$539.77 \$564.89 \$569.80 \$535.00 \$385.31 Acular/s Acular/s S283.98 \$281.75 \$283.87 \$278.83 \$301.63 \$313.65 \$331.73 \$525.830 Acurar/pr& S13.37 \$13.60 \$15.24 \$16.78 \$201.14 \$19.26 \$18.15 \$14.87 Nepademac Nepademac \$15.372 \$154.37 \$163.21 \$172.97 \$186.04 \$200.62 \$202.83 \$14.87 Nepademac \$153.72 \$154.37 \$163.21 \$172.97 \$186.04 \$200.62 \$202.83 \$207.88 Total \$90.13 \$86.76 \$88.79 \$92.23 \$98.12 \$97.38 \$97.38 \$89.74 Total \$93.10 \$89.51 \$91.71 \$95.26 \$101.49 \$100.66 \$100.76 \$92.70				Sector 1	10000	10.0000							
Acutar PF% N/M* Acutar PF% \$2283.98 \$2281.75 \$2283.87 \$278.83 \$301.63 \$313.65 \$5331.73 \$2528.30 Ketorolac Trometh \$113.37 \$13.60 \$15.24 \$16.78 \$20.14 \$19.26 \$13.17 \$2528.30 Nepafenae Nepafenae \$153.72 \$159.77 \$179.56 \$191.89 \$206.89 \$223.78 \$220.43 \$14.87 Nepafenae \$153.72 \$159.77 \$179.56 \$191.89 \$206.89 \$225.78 \$224.199 \$166.70 Total \$159.73 \$154.37 \$163.21 \$172.97 \$186.04 \$200.62 \$297.38 \$39.73 \$389.74 Total \$201.13 \$58.79 \$392.23 \$98.12 \$97.38 \$39.73 \$389.74 Total \$201.42 PF%) \$93.10 \$89.51 \$91.71 \$95.26 \$101.49 \$100.66 \$100.76 \$92.70													
Activalit@ \$283.98 \$281.75 \$283.87 \$278.83 \$301.63 \$313.65 \$331.73 \$228.30 Ketorolac Trometh \$13.37 \$13.60 \$15.24 \$16.78 \$20.14 \$19.26 \$18.15 \$14.87 Nepatenac Nevanac% \$158.06 \$159.77 \$179.56 \$191.89 \$206.89 \$225.78 \$220.83 \$166.70 Ilextro% \$153.72 \$154.37 \$163.21 \$172.97 \$186.04 \$200.62 \$202.83 \$172.49 Total \$90.13 \$86.76 \$88.79 \$92.23 \$98.12 \$97.38 \$89.74 Total (Excluding Flurbiprofen Sodium products and Acular PF-X) \$93.10 \$89.51 \$91.71 \$95.26 \$101.49 \$100.66 \$100.76 \$92.70		\$355.69	\$409.61	\$347.71	\$393.77	\$546.89	\$569.80	\$655.00					
Ketorolac Trometh \$13.37 \$13.60 \$15.24 \$16.78 \$20.14 \$19.26 \$18.15 \$14.87 Nepatenac Nevmac% \$158.06 \$159.77 \$179.56 \$191.89 \$206.89 \$235.78 \$241.99 \$166.70 Ilextro% \$153.72 \$154.37 \$163.21 \$172.97 \$186.04 \$200.62 \$242.89 \$166.70 Total \$90.13 \$86.76 \$88.79 \$92.23 \$98.12 \$97.38 \$97.38 \$89.74 Total (Excluding Flurbiprofen Sodium products and Acular PF %) \$93.10 \$89.51 \$91.71 \$95.26 \$101.49 \$100.66 \$100.76 \$92.70		\$783.98	\$281.75	\$283.87	\$278.83	\$301.63	\$313.65	\$331.73					
Nevanace \$158.06 \$159.77 \$179.56 \$191.89 \$206.89 \$225.78 \$241.99 \$166.70 Ilevro® \$153.72 \$154.37 \$163.21 \$172.97 \$186.04 \$200.62 \$202.83 \$172.49 Total \$301.13 \$86.76 \$88.79 \$92.23 \$98.12 \$97.38 \$97.38 \$89.74 Total (Excluding Flurbiprofen Sodium products and Acular PF %) \$93.10 \$89.51 \$91.71 \$95.26 \$101.49 \$100.66 \$100.76 \$92.70													
Ilextro@ \$153.72 \$154.37 \$163.21 \$172.97 \$186.04 \$200.62 \$202.83 \$172.49 Total \$90.13 \$86.76 \$88.79 \$92.23 \$98.12 \$97.38 \$97.38 \$89.74 Total (Excluding Flurbiprofen Sodium products and Acular PF-X) \$93.10 \$89.51 \$91.71 \$95.26 \$101.49 \$100.66 \$100.76 \$92.70		1000 B.010 B.0											
Total \$90.13 \$86.76 \$88.79 \$92.23 \$98.12 \$97.38 \$89.74 Total (Excluding Flurbiprofen Sodium products and Acular PF%) \$93.10 \$89.51 \$91.71 \$95.26 \$101.49 \$100.66 \$100.76 \$92.70													
products and Acular PF%) \$93.10 \$89.51 \$91.71 \$95.26 \$101.49 \$100.66 \$100.76 \$92.70									Contraction in the second				
products and Acular PF-\$) \$93.10 \$89.51 \$91.71 \$95.26 \$101.49 \$100.66 \$100.76 \$92.70		1011520											
Total Xibrom@/Bromday%/Prolensa% \$169,48 \$172.91 \$171.11 \$168.01 \$189.31 \$182.49 \$184.60 \$172.82		10 million (10 million)	200223	CO1 21	POF 36	£101.40	E100 CC	\$100.76	\$07.70				
	products and Acular PF-%)	\$93.10	389.51	371./1	393.20	3101-47	5100.00						

32

Notes & Sources: * Value is not meaningful since sales data does not show any sales during this period. Calculated as Total Sales / Total Prescriptions Dispensed. From Appendix 2 and Appendix 5.

141

OPHTHALMIC NSAIDS AVERAGE SELLING PRICE PER MILLILITER OF DRUG UNITED STATES

Xhoneš 514.97 514.88 514.89 518.28 524.80 524.79 525.00 525.79 526.99 527.62 527.71 Brondryé Probradě Brondrué Solám 510.24 510.26 510.17 510.64 510.67 510.67 510.62 512.30 512.31 512.35 <th></th> <th></th> <th></th> <th>2005</th> <th></th> <th></th> <th>2006</th> <th>5</th> <th></th> <th></th> <th>2007</th> <th></th> <th></th>				2005			2006	5			2007		
Xhoons 514.97 514.88 514.89 518.28 524.80 524.79 525.00 525.79 526.99 527.62 527.71 Brondry@ Protrad® Brondrug Stiolat <			Q2		Q4	Q1			Q4	Q1			Q4
Voluenzio S10.30 S10.30 S10.17 S10.64 S10.67 S10.62 S12.30 S12.31 S12.33 S12.37 S12.45 S12.45 S12.44 S12.38 S12.33 S12.37 S12.45 S12.46 S12.35 S12.46 S12.34 S12.45 S12.44 S12.38 S12.37 S12.46 S12.45 S12.45 S12.44 S12.34 S12.45 <ths12.45< th=""> <ths12.45< th=""> S12.44</ths12.45<></ths12.45<>	Bromday/® Prolensa®		\$14,97	514,88	\$14.89	\$18.28	\$24.80	\$24.79	\$25.00	\$25.79	\$26.99	\$27.62	\$28,76
Ocubaré S6.00 S6.16 S6.20 S6.66 S6.65 S6.67 S6.80 S6.57 S1.80 S1.55 <						\$10,64	\$10,78	\$10,67	\$10.62	\$12.30	\$12.31	\$12.05	\$12.32
Carantar Transh S10.90 S10.93 S10.75 S11.47 S11.72 S11.63 S12.07 S12.48 S12.28 S12.24 S12.38 S12.38 S12.38 S12.38 S12.38 S12.38 S12.38 S12.38 S12.38 S12.37 S11.31 S12.38 S12.35 S12.37 S12.38 S12.38 S12.38 S12.38 S12.34 S12.34 S12.38 S12.35 S12.44 S11.31 S13.37 S12.35 S12.46 S13.35 S13.47 S13.37 S13.45 S12.35 S12.46 S13.35 S13.47 S11.37 S12.48 S12.35 S12.46 S13.35 S12.45 S11.35 S13.47 S14.45 S14.48 S13.48 S13.48 S13.48 S13.48 S12.48 S12.48 S14.49 S14.35 S14.48 S14.48 S13.48 S13.48 S13.42 S14.49 S15.43 S16.49 S15.43 S16.43 S16.43 <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>\$3.4i \$1.5</td></t<>													\$3.4i \$1.5
Neurone & Ilevro 0 S20.83 S20.78 S20.73 S20.60 S20.48 S20.49 S21.30 S21.85 S21.88 S21.89 S21.89 S21.85 S21.88 S21.85 S21.88 <ths21.85< th=""></ths21.85<>	Ketorolac Trometh Acular® Acular LS® Acular PF® Acuval®		\$11.31	\$11,28	\$11,25	\$11.99	\$12.19	\$12,16	\$12.01	\$12.74	\$13.19	\$13.17	\$12.2 \$12.9 \$10.4
Charles Construction				\$20.83	\$20.78	\$20.73	\$20.60	\$20,48	\$20,49	\$21.30	\$21.85	\$21.88	\$21.9
Silos Silos <th< td=""><td>Total</td><td></td><td>\$9,89</td><td>\$10.03</td><td>\$10.79</td><td>\$11.78</td><td>\$12.40</td><td>\$12.55</td><td>\$12.69</td><td>\$13.54</td><td>\$14.14</td><td>\$14.39</td><td>\$14.6</td></th<>	Total		\$9,89	\$10.03	\$10.79	\$11.78	\$12.40	\$12.55	\$12.69	\$13.54	\$14.14	\$14.39	\$14.6
2008 2009 2010 Bromfinac Sodium Xitrom® S29.92 S31.58 S33.67 S35.21 S37.47 S37.54 S39.44 S41.86 S43.89 S45.19 S47.1 Bromfanac Sodium Protonsa@ S29.92 S31.58 S31.58 S33.67 S35.21 S37.47 S37.54 S39.44 S41.86 S43.89 S45.19 S47.1 Bromfanac Sodium Protonsa@ Bromfanac Sodium S11.24 S11.11 S11.39 S12.44 S11.91 S13.06 S12.58 S12.46 S12.41 S12.58 S12.46 S12.41 S12.51 S1.46 S12.41 S12.58 S12.46 S12.41 S12.58 S12.46 S12.41 S12.51 S1.46 S12.41 S12.58 S12.46 S12.41 S12.51 S1.46 S12.41 S12.58 S12.46 S12.41 S12.51 S1.45	Total (Excluding Flurbiprofen Sodium products and Acular PF@)		\$10.97	\$11.13	\$12.04	\$13,18	\$13.82	\$13.92	\$14.12	\$14.97	\$15.58	\$15.83	\$16.2
Q1 Q2 Q3 Q4 Q1 Q2 Q3 Q4 Q1 Q2 Q3 Q4 Bromfenac Sodium Xibrom [®] \$29.92 \$31.58 \$33.67 \$35.21 \$37.47 \$37.54 \$39.44 \$41.86 \$43.89 \$45.19 \$47.9 Bromfenac Sodium Dielofenac Sodium \$11.24 \$10.54 \$11.11 \$11.39 \$12.44 \$11.91 \$13.10 \$13.06 \$12.58 \$12.46 \$12.41 \$12.51 Voltaren [®] \$11.24 \$10.54 \$11.11 \$11.39 \$12.44 \$11.91 \$13.10 \$13.06 \$12.58 \$12.46 \$12.41 \$12.51 Dielofenae Sodium \$3.55 \$3.32 \$2.90 \$2.60 \$2.40 \$2.31 \$2.25 \$2.06 \$1.45	Total Xibrom@/Bromday@/Prolensa®		\$14,97	\$14,88	\$14.89	\$18.28	\$24.80	\$24,79	\$25.00	\$25.79	\$26.99	\$27.62	\$28.7
Q1 Q2 Q3 Q4 Q1 Q2 Q3 Q4 Q1 Q2 Q3 Q4 Bromfenac Sodium Xibrom [®] \$29.92 \$31.58 \$33.67 \$35.21 \$37.47 \$37.54 \$39.44 \$41.86 \$43.89 \$45.19 \$47.9 Bromfenac Sodium Dielofenac Sodium \$11.24 \$10.54 \$11.11 \$11.39 \$12.44 \$11.91 \$13.10 \$13.06 \$12.58 \$12.46 \$12.41 \$12.51 Voltaren [®] \$11.24 \$10.54 \$11.11 \$11.39 \$12.44 \$11.91 \$13.10 \$13.06 \$12.58 \$12.46 \$12.41 \$12.51 Dielofenae Sodium \$3.55 \$3.32 \$2.90 \$2.60 \$2.40 \$2.31 \$2.25 \$2.06 \$1.45			200				200	9			201	0	
Xibron® \$29.92 \$31.58 \$31.58 \$33.67 \$35.21 \$37.47 \$37.54 \$39.44 \$41.86 \$43.89 \$45.19 \$47.5 Brownday@ Prolensa@ Brownday@ Prolensa@ Brownday@ \$11.24 \$10.54 \$11.11 \$11.39 \$12.44 \$11.91 \$13.10 \$13.06 \$12.58 \$12.46 \$12.41 \$		Q1			Q4	Q1			Q4	Q1	Q2	Q3	Q4
Voltaren®: \$11.24 \$10.54 \$11.11 \$11.39 \$12.44 \$11.91 \$13.10 \$13.06 \$12.88 \$12.46 \$12.41 \$13.10 Dielofenaac Sodium \$3.55 \$3.22 \$2.20 \$2.60 \$2.40 \$2.31 \$2.25 \$2.06 \$1.96 \$1.75 \$1.60 \$1.41 Plurbiprofen Sodium Ocufen® \$4.66 \$4.10 \$3.95 \$3.91 \$4.00 \$5.02 \$4.61 \$5.60 \$5.47 \$5.91 \$6.05 \$6.5 Furbiprofen Sodium \$1.51 \$1.48 \$1.47 \$1.46 \$1.57 \$1.43 \$1.42 \$1.38 \$1.37 <td< td=""><td>Bromday® Protensa®</td><td>\$29.92</td><td>\$31.58</td><td>\$31.58</td><td>\$33.67</td><td>\$35.21</td><td>\$37.47</td><td>\$37.54</td><td>\$39.44</td><td>\$41.86</td><td>\$43.89</td><td>\$45,19</td><td>\$47.9 \$71.2</td></td<>	Bromday® Protensa®	\$29.92	\$31.58	\$31.58	\$33.67	\$35.21	\$37.47	\$37.54	\$39.44	\$41.86	\$43.89	\$45,19	\$47.9 \$71.2
Phurbiprofen Sodium Openen® S4,66 S4,10 S3,95 S3,91 S4,00 S5,02 S4,61 S5,60 S5,47 S5,91 S6,05 S6,75 Flurbiprofen Sodium S1,51 S1,48 S1,47 S1,46 S1,57 S1,43 S1,44 S1,42 S1,37													\$12.3 \$1.6
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	Flurbiprofen Sodium Ocufen®	\$4.66	\$4.10	\$3.95	\$3.91	\$4,00	\$5,02	\$4.61					\$6.3 \$1.3
Nevanacii \$23.36 \$23.35 \$23.31 \$24.62 \$24.87 \$26.68 \$27.06 \$29.13 \$29.35 \$31.00 \$32.1 Illevroit Total \$15.08 \$15.33 \$15.95 \$16.56 \$17.59 \$18.86 \$19.15 \$14.13 \$13.21 \$14.39 \$15.02 \$16.70 Total Creat (Excluding Flurbiprofen Sodium products and Acular PF@) \$16.59 \$18.24 \$19.17 \$20.62 \$20.90 \$15.01 \$14.12 \$15.55 \$16.25 \$17.59	Ketorolae Trometh	\$13.00					\$17.67	\$18.56	\$18.66	\$16.28	\$15.87	\$16.24	\$13.9 \$16.8
Total (Excluding Flurbiprofen Sodium products and Acular PF@) \$16.59 \$16.80 \$17.53 \$18.24 \$19.17 \$20.62 \$20.90 \$15.01 \$14.12 \$15.55 \$16.25 \$17.0	Acular LS® Acular PF® Acuvail®					\$12.37	313.41		\$8.56	\$8,56	\$8.55	\$8.77	
products and Acular PF@) \$16.59 \$16.80 \$17.53 \$18.24 \$19.17 \$20.62 \$20.90 \$15.01 \$14.12 \$15.55 \$16.25 \$17.5	Acular LS@ Acular PF# Acuvail@ Ketorolae Trometh Nepafcnac Neyanac#	\$10.77	\$11.08	\$11.14	\$11.54			\$8.48	\$8.56 \$2.71	\$8,56 \$2.02	\$8.55 \$1.92	\$8.77 \$1.91	\$1.9
	Acular LS@ Acular PF# Acuvail@ Ketorolae Trometh Nepafcnac Neyanac#	\$10.77 \$23.36	\$11.08 \$23.35	\$11.14 \$23.31	\$11.54 \$23.31	\$24.62	\$24.87	\$8.48 \$26.68	\$8.56 \$2.71 \$27.06	\$8,56 \$2.02 \$29.13	\$8.55 \$1.92 \$29.35	\$8.77 \$1.91 \$31.00	\$1.9 \$32.8
	Acular LS@ Acuvai® Ketorolae Trometh Nepafenae Nevanae# Ilevro®	\$10.77 \$23.36 \$15.08	\$11.08 \$23.35 \$15.33	\$11.14 \$23.31 \$15.95	\$11.54 \$23.31 \$16.56	\$24,62	\$24.87	\$8,48 \$26.68 \$19.15	\$8.56 \$2.71 \$27.06 \$14.13	\$8,56 \$2,02 \$29,13 \$13,21	\$8.55 \$1.92 \$29.35 \$14.39	\$8.77 \$1.91 \$31.00 \$15.02	\$8.7 \$1.9 \$32.8 \$16.2 \$17.6

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OPHTHALMIC NSAIDS AVERAGE SELLING PRICE PER MILLILITER OF DRUG UNITED STATES

		201	1			201	2			201	3	
	Q1	Q2	Q3	Q4	QI	Q2	Q3	Q4	Q1	Q2	Q3	Q4
Bromfenae Sodium Xibrom®	\$47,64	\$47.91	\$46.97	\$46.59	\$43.74	\$41.40	\$39.92	\$43.71				
Bromday®	\$72.46	\$74.85	\$73.85	\$79.44	\$84.51	\$89.81	\$89.70	\$91.52	\$93.99	\$94.79	\$92.70	\$91.63
Prolensa										\$62.49	\$67.59	\$70.8-
Bromfenae Sodium		\$39.95	\$39.47	\$39.95	\$40.30	\$40.24	\$40.43	\$42.65	\$42.17	\$42.34	\$42.10	\$41.97
Dielofenac Sodium												
Voltaren	\$13.18	\$13.22	\$11.21	\$11.72	\$14.76	\$13.76	\$14.00	\$14.00				
Dielofenae Sodium	\$1.64	\$1,62	\$1.57	\$1.64	\$1.61	\$1.62	\$1.67	\$1,53	\$1,49	\$1.49	\$1.44	\$1.40
Flurbiprofen Sodium	12110111	10239544555					100000000				140.0070.0404	
Ocufen [®]	\$6.03	\$3.26	\$3.43	\$3,42	\$3.80	\$3.41	\$4.22	\$4 20	\$4.51	\$7.81	\$6.76	\$6.54
Flurbiprofen Sodium	\$1.38	\$1.43	\$1.35	\$1.33	\$1.33	\$1.34	\$1,30	\$1.29	\$1.26	\$1.50	\$1.31	\$1.23
Ketorolac Trometh			÷	1	2			S	S			
Acular®	\$15.30	\$14.32	\$16.09	\$15.68	\$15.78	\$14.73	\$16.25	\$13.17	\$13.20	\$14.30	\$13.14	\$10.89
Acular LS® Acular PF®	\$18.36	\$18.50	\$19.80	\$19.60	\$19.99	\$20.64	\$21.26	\$20.01	\$23.01	\$22.37	\$22.47	\$27.15
Acuvaila	\$9.11	\$9.10	\$10.20	\$10.31	\$10.66	\$11.05	\$11.55	\$11,50	\$13.28	\$13.85	\$14.33	\$14.52
Ketorolac Trometh	\$1.85	\$1.89	\$1.78	\$1.83	\$1.77	\$1.71	\$1.91	\$1.69	\$1.59	\$1.64	\$1.63	\$1.60
Nepalenac												
Nevanac®	\$37.42	\$37.57	\$38.55	\$38.93	\$40,51	\$40,53	\$41.99	\$42,17	\$45.25	\$45.42	\$45.36	\$45.64
llevro@									\$81,79	\$82.83	\$83.09	\$83.60
Total	\$16.05	\$14.33	\$14.20	\$15.92	\$17.06	\$17.05	\$17,70	\$17.90	\$18.02	\$17.43	\$16.93	\$17.35
Total (Excluding Flurbiprofen Sodium												
products and Acular PF®)	\$17.43	\$15.54	\$15.40	\$17.29	\$18.54	\$18.53	\$19.26	\$19.43	\$19.54	\$18.89	\$18.40	\$18.93
Total Xibrom @/Bromday.@/Prolensa@	\$54.00	\$63.37	\$73,45	\$79.32	\$84,48	\$89.80	\$89.69	\$91.52	\$93,99	\$87,24	\$74.56	\$71.02
		201	4			2015		2013 Q2-				
	QI	Q2	Q3	Q4	QL	Q2	Q3	2015 Q3				
Bromfenac Sodium												
Xibrom® Bromday®	\$88.32	\$97,79	\$95.60				\$61.10	\$94,20				
Prolensa@	\$73.18	\$71.98	\$71.53	\$71.45	\$75.03	\$69.53	\$68.77	\$70.99				
Bromfenac Sodium	\$48-21	\$44.53	\$42.01	\$41.60	\$37.00	\$36.06	\$38.08	\$41.78				
Diclofenae Sodium												
Voltaren%												
Diclofenac Sodium	\$1,26	\$1.22	\$1,10	\$1,11	\$1.07	\$1,02	\$1.07	\$1.20				
Flurbiprofen Sodium												
Oculen®	\$9.30	\$7.29	\$7.12	\$7.44	\$7.84	\$7.35	\$9.62	\$7.64				
Flurbiprofen Sodium	\$1.24	\$1.21	\$1.22	\$1.23	\$1.23	\$1.21	\$1.19	\$1.24				
Ketorolac Trometh												
Acular®	\$11.66	\$11.26	90.82	\$11.43	\$12.51	\$10.32	\$10.06	\$11.46				
Acular LS®	\$24.62	\$21.98	\$20.57	\$22.02	\$23.82	\$24.55	\$25.39	\$23.45				
Acular PF®	212.02	P15 22	016.74	e12 20 -	F1C 22	817.05	817.01	116.74				
Acuvail® Ketorolae Trometh	\$15.05 \$2.12	\$15.32 \$2.52	\$15.24 \$2.57	\$15.58 - \$2.94	\$16.53 \$3.19	\$17.05 \$3.19	\$17.91 \$2.98	\$15.24 \$2.46				
							the set of the					
Nepalenac Nevanac [®]	\$48.96	\$48.91	\$53.28	\$56.69	\$60.31	\$67.16	\$65.77	\$50.49				
flevro®	\$90.99	\$90.90	\$95.85	\$95.47	\$98.89	\$108.05	\$107,48	\$97_14				
Total	\$19,06	\$20.13	\$19.85	\$21.21	\$20.66	\$20.77	\$20.22	\$19.37				
Total (Excluding Flurbiprofen Sodium												
products and Acular PF®)	\$20.79	\$22.00	\$21.55	\$23.07	\$22.53	\$22.68	\$21.94	\$21.09				
Total Xibrom®/Bromday®/Prolensa®	\$73.19	\$71.99	\$71.53	\$71.45	\$75.03	\$69.53	\$68,77	\$73.10				
		Structure and		120000143003	12,000,050	07220033502	1212203-001	5.500 Part 0.50				

<u>Notes & Sources:</u> Extended units are defined as the number of milliliters of liquid sold. (Ex. 2192.) Calculated as Total Sales / Total Extended Units Sold. From Appendix 2 and Appendix 8.

OPHTHALMIC NSAIDS TOTAL PROMOTIONAL SPENDING UNITED STATES

	6.3		2005			200	6			200	7	
		Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4
Bromfenac Sodium Xibrom® Bromday® Prolens® Bromfenac Sodium		\$921	\$3,748	\$2,860	\$5,070	\$5,622	\$3,524	\$3,795	\$4,090	\$4,904	\$3,735	\$4,148
Diclofenac Sodium Voltaren@ Diclofenac Sodium		\$1,164	\$999	\$1,853	\$1,998	\$1,884	\$1,004	\$414	\$12	\$13		\$6 \$0
Ketorolac Trometh Acular® Acular LS® Acular PF® Acuvail® Ketorolac Trometh		\$529 \$6,324 \$12	\$622 \$5,426	\$539 \$7,608 \$24	\$352 \$6,744	\$929 \$6,426	\$629 \$6,506	\$261 \$7,669	\$572 \$6,289	\$295 \$9,779	\$452 \$8,191	\$169 \$9,152
Nepafenac Nevanac® Ilevro®			\$1,481	\$6,923	\$7,774	\$7,443	\$4,307	\$4,302	\$9,306	\$4,563	\$5,275	\$3,030
Total		\$8,950	\$12,276	\$19,807	\$21,938	\$22,304	\$15,970	\$16,441	\$20,269	\$19,554	\$17,653	\$16,507
Total (Excluding Acular PF®)		\$8,938	\$12,276	\$19,782	\$21,938	\$22,304	\$15,970	\$16,441	\$20,269	\$19,554	\$17,653	\$16,507
Total Xibrom@/Bromday@/Prolensa@		\$921	\$3,748	\$2,860	\$5,070	\$5,622	\$3,524	\$3,795	\$4,090	\$4,904	\$3,735	\$4,148
		200	18			200	0			201	0	
	QI	Q2	Q3	Q4	Q1	Q2	Q3	Q4	QI	Q2	Q3	Q4
Bromfenac Sodium Xibrom® Bromday® Prolensa® Bromfenac Sodium	\$5,884	\$8,324	\$5,549	\$6,381	\$7,607	\$6,930	\$9,210	\$7,271	\$11,789	\$17,243	\$13,924	\$9.241 \$13,277
Diclofenac Sodium												
Voltaren® Diclofenac Sodium	\$6		\$1				89		\$180 \$282	\$121		\$70
	\$6 \$120 \$7,114 \$69	\$695 \$5,653		\$250 \$5,704 \$7	\$288 \$7,978	\$46 \$17,451	\$9 \$633 \$6,544 \$2,274	\$42 \$1,221 \$2,914		\$121 \$1,385	\$113 \$601	\$230
Diclofenac Sodium Ketorolac Trometh Acular® Acular LS® Acular PF® Acuval®	\$120 \$7,114		\$1 \$92	\$5,704			\$633 \$6,544	\$1,221	\$282 \$886 \$442			\$70 \$230 \$420 \$4,491
Diclofenac Sodium Ketorolac Trometh Acular® Acular LS® Acular PF® Acuval® Ketorolac Trometh Nepafenac Nevanac®	\$120 \$7,114 \$69	\$5,653	\$1 \$92 \$10,131	\$5,704 \$7	\$7,978	\$17,451	\$633 \$6,544 \$2,274	\$1,221 \$2,914	\$282 \$886 \$442 \$1,662	\$1,385	\$601	\$230 \$420
Diclofenac Sodium Ketorolac Trometh Acular JS Acular JS Acular JF Acuval@ Ketorolac Trometh Nepafenac Nevanac@ Ilevro@	\$120 \$7,114 \$69 \$5,944	\$5,653 \$6,185	\$1 \$92 \$10,131 \$7,923	\$5,704 \$7 \$3,925	\$7,978 \$5,869	\$17,451	\$633 \$6,544 \$2,274 \$8,309	\$1,221 \$2,914 \$6,967	\$282 \$886 \$442 \$1,662 \$6,576	\$1,385 \$5,010	\$601 \$3,359	\$230 \$420 \$4,491

Page 1 of 2

OPHTHALMIC NSAIDS TOTAL PROMOTIONAL SPENDING UNITED STATES

		201	1			201	2			201	3	
	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4
Bromfenac Sodium Xibrom@ Bromday@ Prolensa@ Bromfenac Sodium	\$965 \$31,039	\$24 \$26,759	\$20,298	\$25 \$12,897	\$1,075 \$19,326	\$15,369	\$16,280 \$23	\$57 \$21,720 \$37	\$26,900 \$121	\$7,676 \$12,282 \$282	59 \$15,727 \$54	\$373 \$11,662
Diclofenac Sodium Voltaren@ Diclofenac Sodium	\$96	\$108	\$192	\$213	\$215	\$285	\$171	\$168	\$126			
Ketorolac Trometh Acular® Acular LS®	\$389						\$301	\$1,710	\$712	\$279		\$277 \$147
Acular PF® Acuvail® Ketorolac Trometh	\$174	\$190	\$131	\$96	\$78	\$42	\$110	\$26	\$98	\$36	\$146	\$28
Nepafenac Nevanac® Ilevro®	58,898	\$4,076	\$4,724	\$7,320	\$5,566	\$4,720	\$4,555	\$3,710	\$6,811 \$1,181	\$3,923 \$5,222	\$2,169 \$4,965	\$5,071 \$7,462
Total	\$41,561	\$31,156	\$25,345	\$20,551	\$26,261	\$20,416	\$21,440	\$27,430	\$35,949	\$29,699	\$23,068	\$25,019
Total (Excluding Acular PF®)	\$41,561	\$31,156	\$25,345	\$20,551	\$26,261	\$20,416	\$21,440	\$27,430	\$35,949	\$29,699	\$23,068	\$25,019
Total Xibrom@/Bromday@/Prolensa@	\$32,004	\$26,783	\$20,298	\$12,922	\$20,401	\$15,369	\$16,280	\$21,778	\$26,900	\$19,958	\$15,735	\$12,035
		201	14			2015		2013 Q2 -				
	Q1	Q2	Q3	Q4	Q1	Q2	Q3	2015 Q3				
Bromfenac Sodium Xibrom® Bromday® Prolensa® Bromfenac Sodium	\$14,848	\$13,880	\$16,133 \$160	- \$16,070	\$10,021	\$24 \$11,301	\$24 \$9,398	\$8,105 \$131,320 \$495				
Diclofenac Sodium Voltaren® Diclofenac Sodium												
Ketorolac Trometh Acular® Acular LS® Acular PF®	\$23			\$161				\$277 \$609				
Acuvail® Ketorolac Trometh	\$50	\$54	\$71	\$37				\$422				
Nepafenac Nevanac® Ilevro®	\$1,636 \$9,593	\$468 \$6,436	\$208 \$5,966	\$99 \$8,948	\$8,208	\$10,237	\$5,771	\$13,573 \$72,807				
Total	\$26,149	\$20,838	\$22,538	\$25,316	\$18,228	\$21,562	\$15,192	\$227,609				
Total (Excluding Acular PF®)	\$26,149	\$20,838	\$22,538	\$25,316	\$18,228	\$21,562	\$15,192	\$227,609				
Total Xibrom@/Bromday@/Prolensa®	\$14,848	\$13,880	\$16,133	\$16,070	\$10,021	\$11,325	\$9,421	\$139,426				

<u>Notes & Sources:</u> In thousands Flurbiprofen Sodium products promotional spending is 0. From TMS Data.

Page 2 of 2

BRANDED OPHTHALMIC NSAIDS TOTAL PROMOTIONAL SPENDING AS A PERCENT OF TOTAL SALES UNITED STATES

-		0005			2000				2007		
-	02		04	01			04	01			Q4
-	161.1%	281.6%	136.6%	153.5%	110.6%	62.9%	55.2%	53.3%	50.5%	35.0%	35.5%
	22.2%	20.6%	47.4%	58.4%	52.1%	29.8%	12.8%	0.3%	0.4%		0.2%
	3.3% 68.9% 3.5%	4.6% 53.7%	4.7% 84.9% 9.4%	3.2% 74.6%	7.2% 61.0%	5,7% 58.2%	2.7% 62.9%	5.6% 47.2%	2.5% 63.5%	4.2% 51.5%	1.8% 58.7%
		240.4%	124.3%	117.2%	98.6%	58.1%	56.1%	118.8%	50.7%	54.7%	28.5%
-	28.1%	39.0%	60.1%	64.3%	55.0%	40.4%	40.6%	46.8%	38.8%	34.6%	32.3%
	161.1%	281.6%	136.6%	153.5%	110.6%	62.9%	55.2%	53.3%	50.5%	35.0%	35.5%
	2008				2009)			2010	6	
QI	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4
46.7%	56.5%	35.7%	36.8%	38.5%	30.5%	39.1%	29.9%	45.9%	57.3%	42.6%	27.1% 663.0%
0.4%						4.8%		182.6%			
1,2%	6.0%	0.9%	2.6%	2.7%	0.4% 75.8%	5.1% 30.2%	0.6% 12.5%	46.3% 29.8%		11.8%	24.8%
45.6% 27.7%	31,6%	56.6%	31.9% 3.0%	38.3%	/5.8%	146.1%	21.3%	14.6%	24.2%	11.5%	11.2%
	31.6% 49.2%	56.6% 61.7%		38.3% 45.4%	39.4%				24.2% 24.4%		
27.7%			3.0%			146.1%	21.3%	14.6%		11.5%	11.2%
	46.7% 0.4% 1.2%	Q2 161.1% 22.2% 3.3% 68.9% 3.5% 28.1% 161.1% 2008 Q1 Q2 46.7% 56.5% 0.4% 1,2% 6.0%	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$\begin{array}{c c c c c c c c c c c c c c c c c c c $	$\begin{array}{c c c c c c c c c c c c c c c c c c c $	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$\begin{array}{c c c c c c c c c c c c c c c c c c c $	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$\begin{array}{c c c c c c c c c c c c c c c c c c c $

BRANDED OPHTHALMIC NSAIDS TOTAL PROMOTIONAL SPENDING AS A PERCENT OF TOTAL SALES UNITED STATES

	2011			2012				2013				
	QI	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4
Bromfenac Sodium Xibrom® Bromday® Prolensa®	4.7% 289.9%	0.3% 165.1%	96.2%	45.0% 46.1%	N/M* 67.6%	52.0%	56.1%	N/M* 74,8%	96.4%	32.3% 256.6%	0.1% 95.4%	140.7% 50.7%
Diclofenac Sodium Voltaren®												
Ketorolac Trometh Acular® Acular LS® Acular PF® Acuvai®	47.3% 5.9%	8.4%	6.2%	5.1%	4.6%	4.2%	83.8% 11.8%	572.4% 2.7%	250.1% 9.6%	112.9% 4.0%	17.2%	78.3% 31.9% 3.5%
Nepafenac Nevanac® Ilevro®	37.1%	16.4%	19.4%	27.7%	20,1%	15.9%	13.7%	10.4%	19.4% 122.8%	11.7% 193.8%	7.8% 53,5%	22.0% 50.3%
Total	65.1%	50.9%	43.8%	30.6%	38.2%	28.6%	28.8%	36.0%	47.3%	38.1%	31.0%	33.7%
Total Xibrom@/Bromday@/Prolensa®	102.9%	112.0%	95.3%	46.1%	71.4%	52.0%	56.0%	75.0%	96.4%	69.9%	62.5%	51.7%
		2014				2015		2013 Q2 -				
	Q1	Q2	Q3	Q4	Q1	Q2	Q3	2015 Q3				
Bromfenac Sodium Xibrom® Bromday® Prolensa® Diclofenac Sodium Voltaren®	57.7%	48.8%	56.3%	56.4%	33.7%	37.2%	N/M* 30,1%	24.7% 53.2%				ŝ
Ketorolac Trometh Acular® Acular LS® Acular PF® Acuvai®	3.5% 6.4%	7.7%	11.0%	51.0% 6.1%				7.6% 16.5% 6.1%				
Nepafenac Nevanac® Ilevro®	8.4% 48.4%	2.7% 25.5%	1.2% 20.1%	0.7% 27.0%	24.6%	26.0%	14.2%	7.1% 29,3%				
Nevanac@					24.6%	26.0%	14.2%					

Notes & Sources: * Value is not meaningful. For Xibrom®, data indicates Total Sales of about \$9,000 and Total Promotional Spending of about \$1,075,000 in Q1 2012, Total Sales of under \$3,000 and Total Promotional Spending of about \$27,000 in Q4 2012. For Bromday®, data indicates Total Sales of under \$1,000 and Total Promotional Spending of about \$24,000 in Q3 2015.

Calculated as Total Promotional Spending / Total Sales. From Appendix 11 and Appendix 2.

QUARTERLY PROLENSA® DATA UNITED STATES

	Sales	Total Prescriptions	Extended Units Sold	ASP per Prescription	ASP per Milliliter of Drug	Promotional Spending	
	[A]	[B]	[C]	[D]	[E]	[F]	
Q2 2013	\$4.786	20.034	76,597	\$238.92	\$62.49	\$12,282	
Q3 2013	\$16,492	95,546	243,986	\$172.61	\$67.59	\$15,727	
Q4 2013	\$23,023	146,478	325.001	\$157.18	\$70.84	\$11,662	
Q1 2014	\$25,751	149,409	351,899	\$172.35	\$73.18	\$14,848	
Q2 2014	\$28,456	163,653	395,300	\$173.88	\$71.98	\$13,880	
Q3 2014	\$28,667	167,241	400,754	\$171.41	\$71.53	\$16,133	
Q4 2014	\$28,473	169,388	398,494	\$168.10	\$71.45	\$16,070	
Q1 2015	\$29,713	156,919	396,020	\$189.36	\$75.03	\$10,021	
Q2 2015	\$30,360	166,337	436,649	\$182.52	\$69.53	\$11,301	
Q3 2015	\$31,181	168,902	453,386	\$184.61	\$68.77	\$9,398	
Total							
2013 Q2 - Q4	\$44,302	262,058	645,584	\$169.05	\$68.62	\$39,670	
2014	\$111,347	649,691	1,546,447	\$171.38	\$72.00	\$60,931	
2015 Q1 – Q3	\$91,254	492,158	1,286,055	\$185.42	\$70.96	\$30,719	
Grand Total	\$246,902	1,403,907	3,478,086	\$175.87	\$70.99	\$131,320	

Notes & Sources:

Extended units are defined as the number of milliliters of liquid sold. (Ex. 2192.) Peak quarterly values are in bold.

[A] From Appendix 2. Values in thousands of USD.

[B] From Appendix 5.

[C] From Appendix 8.

[D] From Appendix 9.

[E] From Appendix 10.

[F] From Appendix 11. Values in thousands of USD.