# 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 IPR2015-00903 Patent 8,129,431

DECLARATION OF JOHN C. JAROSZ

# TABLE OF CONTENTS

I.	INTRODUCTION						
	A.	Assignment					
	B.	Qualifications					
	C.	Compensation					
	D.	Evidence Considered					
	E.	Summary of Opinions					
II.	BACKGROUND						
	A.	Par	Parties to the Inter Partes Review				
		1.	1. Senju				
		2.	Bausch & Le	omb	8		
		3.	InnoPharma		9		
		4.	Mylan		10		
	B.	Cataract Treatments					
	C.	Pos	Post-Surgery Options				
		1.	Non-Bromfe	enac NSAIDs	13		
			a. Diclos	fenac Sodium	13		
			b. Ketore	olac Tromethamine	14		
			c. Nepaf	enac	14		
		2.	Corticostero	ids	15		
	D.	Pro	ensa®		17		
		1.	Earlier Bron	nfenac Products	17		
		2.	ISTA's Acqu	uisition by Bausch & Lomb	19		
		3.	Developmen	t and Launch of Prolensa®	19		
	E.	Patented Technology					
III.	FRA	MEW	ORK OF ANA	ALYSIS	22		
IV.	COMMERCIAL SUCCESS OF THE '431 PATENT						
	A.	Mai	Marketplace Success				
		<ol> <li>Absolute Performance of Prolensa®</li> </ol>			24		
	2.		Relative Per	formance of Prolensa®	26		
			a. Initial	ly	26		
			b. Over	Γime	28		

		c.	Third-Party Perceptions	30	
		d.	Licensing Activity	32	
В.	Causal Nexus				
	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	
		c.	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	52	
		c.	Impact of Promotional Efforts	54	
		d.	Impact of Price	55	
	3.	Pro	motional Spending	58	
V CC	ONCLU	NOIS		61	

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

- 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").
- Junderstand 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 1-22 of U.S. Patent No. 8,129,431 (the "'431 patent") on obviousness grounds. That IPR was assigned Case IPR2015-00903.
- 4. I understand that the PTAB has granted the petition of the Petitioners

to institute a separate 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.

- 5. I understand that Senju is the assignee of the '431 patent and that Shirou Sawa and Shuhei Fujita are the named inventors of the patent.
- 6. I understand that the '431 patent describes and claims compositions of the active ingredient bromfenac sodium ("bromfenac") and the surfactant tyloxapol. I further understand that Prolensa® embodies the compositions disclosed in the '431 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 '431 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

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.

# 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

- 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

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 '431 patent. In short, the claims of the '431 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 '431 patent. The patent describes and claims compositions of the active ingredient bromfenac and the surfactant tyloxapol. Specifically, claims of the '431 patent disclose aqueous liquid compositions of the active ingredient bromfenac and the surfactant tyloxapol, which is the technology embodied in the drug Prolensa®. (Ex. 2082, at ¶152.) 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 '431 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 '431 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

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 assignee of the '431 patent. (Ex. 1001.)

### 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 '431 patent from Senju and is a wholly-owned subsidiary of Bausch & Lomb Incorporated.
- 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

million all-cash transaction.<sup>2</sup> (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

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

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.)

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

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

- 36. 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

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 \$\frac{1}{2}\$5.) 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.<sup>4</sup> (Ex. 2161; Ex. 2163; Ex. 2167.) Generic versions of ketorolac tromethamine are available in solution formulations with varying concentrations. (Ex. 2168; Ex. 2169.)
- 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

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.)

Al. 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,

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

- 44. 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.<sup>5</sup> It does not include

corticosteroids.

### D. Prolensa®

patent. (Ex. 2082, at ¶152.) 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

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.)

- 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

Sausch & Lomb (which, at the time, was owned by Warburg) paid \$465.5 million to acquire ISTA in June 2012. (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. (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

Purchase price is net of cash acquired.

<sup>&</sup>lt;sup>7</sup> \$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

52. The '431 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. 1001, at 1.)

53. The '431 patent was filed on January 16, 2004 and issued to Senju on March 6, 2012. (Ex. 1001.)

- I understand that claims of the '431 patent are directed to 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. 1001, at 2; Ex. 2082, at ¶152.)
- ("the '225 patent") and 6,107,343 ("the '343 patent") constitute prior art to the '431 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 '431 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. (Ex. 2153, at 5.)
- 56. I understand that the compositions of bromfenac and tyloxapol disclosed and claimed in the '431 patent result in a formulation to treat

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

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;

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 '431 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®.

- Second, I evaluated the nexus between the success of the product embodying the '431 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).)
- 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 '431 PATENT

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 '431 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® prescriptions<sup>9</sup> 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 this time period was 169,388, which occurred in the fourth quarter of 2014.

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.

(Appendix 13.)

65. 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

- 66. 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 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.)

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

68.

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.<sup>10</sup>

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 inflammation and pain following cataract surgery.

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.)

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. (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 similar indications. Prolensa®'s share of the competing U.S. ophthalmic

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.)

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. (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 or inflammation and pain following cataract surgery. (Appendix 3.)

# c. Third-Party Perceptions

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 through its first ten quarters of U.S. commercial sales, and sales have

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.)

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 '431 patent at the PTAB. 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 ¶182.)
- 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® sales in the coming years. For example, an October 2015 report by UBS

Lupin is challenging the '431 patent in IPR2015-01871. See Lupin Ltd. et al. v. Senju Pharmaceutical Co., Ltd. et al., IPR2015-01871 (Paper 2).

projected Prolensa® sales to reach \$173.8 million annually by 2020. (Ex. 2203, at 7.)

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 '431 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 '431 patent, as well as four other patents owned by Patent Owners – the '290 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, including the '431 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®.

- 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 '431 patent, as well the '290 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 '431 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 '431 patent, as well the '290 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 '431 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 '431 patent is valid and enforceable and would be infringed by a generic version of Prolensa®.

### B. Causal Nexus

## 1. Benefits of the Patented Inventions

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 '431 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;

- 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.)
- 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.)

85. According to Dr. Williams, the benefits that result from combining bromfenac with tyloxapol instead of polysorbate 80 were unexpected. (Ex. 2082, at ¶51.) 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 ¶165.) Instead, according to Dr. Williams, the use of tyloxapol instead of polysorbate 80 resulted in "vastly superior chemical stability." (Ex. 2082, at ¶165.) 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 ¶178-180.)

# 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 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.)

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.)
- 90. 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 ¶42, 52.)

- 91. 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 ¶¶181-82.) 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.<sup>14</sup>

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 '431 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 successful product by the Petitioners), one would not expect the Petitioners

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.

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 '431 patent.

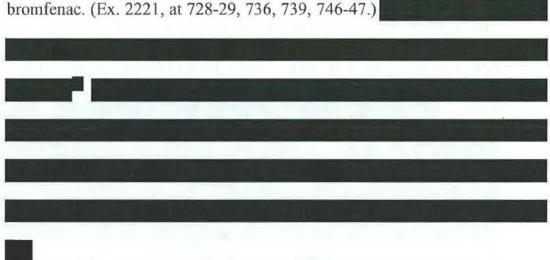
# b. Marketing Importance of the Benefits

## i. Healthcare Professionals

95. 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 '431 patent.

96. 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



97. 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 corneal penetration" and "offers ocular comfort and convenience with [once-

daily 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 '431 patent.
- 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 '431 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 '431 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 ¶51.)

- 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

Demand for a product, pharmaceutical or not, is driven by a host of factors, not just one. <sup>16</sup> (*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

The type and extent of advertising for any product or service varies depending on the nature of the promoted goods and/or services. Advertising can be either informative or persuasive. Informative advertising notifies

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.

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.)

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.)

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 the existence and benefits of a drug's advantages, and pharmaceutical

promotion fulfills this role.

#### b. Pharmaceutical Demand Factors

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. <sup>17</sup> (*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 relationship between promotional efforts and product characteristics, which

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.)

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.)

- 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 (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.)

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 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

- 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.)
- 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.

# d. Impact of Price

121. Brand name drugs are typically more expensive than generic drugs in

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.)

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

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.)

- 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.)
- 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 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.)
- 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.)

- 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.

- 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 '431 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 '431 patent. In short, the claims of the '431 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.)

A number of facts demonstrate that there is a causal nexus between 134. the success of Prolensa® and the claimed features of the '431 patent. The patent describes and claims compositions of the active ingredient bromfenac and the surfactant tyloxapol. Specifically, claims of the '431 patent disclose aqueous liquid compositions of the active ingredient bromfenac and the surfactant tyloxapol, which is the technology embodied in the drug Prolensa®. (Ex. 2082, at ¶152.) 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 '431 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 '431 patent.

- 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.

John C. Jarosz

December 24, 2015

#### APPENDIX 1

# JOHN C. JAROSZ Managing Principal

Phone: (202) 530-3980 Fax: (202) 530-0436

john.jarosz@analysisgroup.com

Analysis Group, Inc. 800 17<sup>th</sup> Street, NW Suite 400 Washington, DC 20006

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.

### **EDUCATION**

J.D.

University of Wisconsin

M.A. & Ph.D. candidate

Economics, Washington University, St. Louis

B.A.

Economics and Organizational Communication, Creighton University

#### PROFESSIONAL ASSOCIATIONS/MEMBERSHIPS

- American Economic Association
- American Law and Economics Association
- 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**

BroadSoft, Inc. 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. <u>Parrot S.A. and Parrot, Inc.</u>
   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.
- Bayer CropScience AG and Bayer CropScience NV 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</u>, <u>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</u>, Inc.
  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. Nichia Corporation and Nichia America Corporation v. Everlight Americas, Inc.
   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.

 Bayer Healthcare Pharmaceuticals, Inc. and Dow Pharmaceutical Sciences, Inc. 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., Wyeth LLC, Wyeth Consumer</u> Healthcare Ltd., and Wyeth Consumer Healthcare LLC

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.

 Impulse Technology Ltd. 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., NexTag, Inc., and Adchemy, Inc.
 United States District Court, Western District of North Carolina, Charlotte Division (Case No. 3-:10-cv-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.

Network Protection Sciences, LLC 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 2:12-cv-01941-RCJ-VPC)

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

- Shurtape Technologies, LLC and Shurtech Brands, LLC v. 3M Company 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.
- Abbott Biotechnology Ltd. and AbbVie, Inc. 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. Nissan North America, Inc. and Nissan Motor Co., Ltd.
   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.
- Epos Technologies Ltd.; 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. Acer, Inc., et al./Microsoft Corporation v. St. Clair Intellectual Property Consultants, Inc.

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.
- Galderma Laboratories, L.P.; Galderma S.A.; and Galderma Research & Development, S.N.C. 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. <u>Danisco A/S</u>; <u>Genecor International Wisconsin</u>, Inc.; <u>Danisco US Inc.</u>; <u>and Danisco USA Inc.</u>
  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. Garmin International, Inc.; Garmin USA, Inc.; TomTom, Inc.; and Volkswagen Group of America, Inc.

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.

Pronova Biopharma Norge AS 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. BMW North America, LLC, et al.

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. Medicomp, Inc. and United Therapeutics Corp.

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. Visicu, 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.

 Sanofi-Aventis Canada Inc.; 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. Seagate Technology

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.

#### Siemens Medical Solutions USA, Inc. 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.

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

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. Clarins U.S.A.

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 Orthopedics</u>, Inc. (formerly known as Sulzer Orthopedics, Inc.); 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. Nissan North America, Inc.

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.

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.

#### NetRatings, Inc. 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.

#### Source Search Technologies, LLC 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> America, Inc.

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.

#### Innogenetics N.V. 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. Monolithic Power Systems, Inc.

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.

# Solvay Solexis, Inc. 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.

#### Eaton Corp. 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. Eaton Corp.

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. Toyota Motor Corp.

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</u>, <u>Inc</u>; <u>Everex Systems</u>, <u>Inc</u>.; <u>Hewlett-Packard Co</u>.; <u>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. Cybex International, Inc.

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. <u>Guidant Corp. and Advanced Cardiovascular Systems, Inc.</u> 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>, <u>L.P.</u>; and <u>The Beaumont</u> Co.

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. BCI, Inc.

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. Rose Acre Farms, Inc.

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. Applera Corp.

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.

- Medtronic Sofamor Danek, Inc. 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.
- Boehringer Ingelheim Vetmedica, Inc. 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.
- Arris International and Randall A. Holliday 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. Applera Corp.; and Lifecodes Corp., and its Subsidiaries Cellmark Diagnostics, Inc.; and Genomics International Corp.
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. Alcon Laboratories, Inc.

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.

Takata Corp. v. AlliedSignal, Inc. and Breed Technologies, Inc.

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. Genentech, 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. Beckman Coulter, Inc.

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. Macromedia, 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.

# Rockwell Automation Technologies, LLC 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. Thomson Consumer Electronics, Inc. United States District Court, Southern Division of Indiana (Case No. IP 99-836-C Y/G)

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.

#### Heimann Systems GmbH 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.

#### Omega Engineering, Inc. 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. PE Corp.

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 patents directed 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. <u>Sumitomo Chemical Co., Ltd. and Sumitomo Chemical America, Inc.</u> 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.

#### Elan Corp., PLC 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. Hewlett-Packard Co.

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.

#### Bristol-Myers Squibb Co. 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 semi-synthetic 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. Conair Corp.

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.

- Sofamor Danek Holdings, Inc., et al. v. United States Surgical Corp., et al.
   United States District Court, Western District of Tennessee (Case No. 98-2369 GA)
   Trial and deposition testimony and expert report: lost profits, reasonable royalty and prejudgment interest involving a patent covering the method of inserting a spinal inter-body fusion device.
- Molten Metal Equipment Innovation, Inc. v. Metaullics
   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. <u>Sofamor Danek Group, Inc.</u>
   United States District Court, Northern District of Ohio (Case No. 1:93-CV01184)
   Trial and deposition testimony and expert report: lost profits and prejudgment interest involving patents directed to spinal implant devices.
- 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 eigarette lighters.
- Syncsort Inc. v. Michael Wagner; Cambridge Algorithm; ICF Kaiser Intl. Inc., et al. 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. Hemasure Inc. and Lydall, Inc.
  United States District Court, Eastern District of New York (Case No. CV-96-436 (TCP/ETB), Case No. 96-5620 (LDW/VVP))
  Deposition testimony and expert report: lost profits, reasonable royalty and prejudgment interest involving patents directed to prestorage leukodepletion devices.
- Mentor H/S, Inc. v. Medical Device Alliance, Inc.; Lysonix, Inc.; and Misonix, Inc.
   United States District Court, Central District of California (Case No. CV97-2431 WDK (BQRx))

   Trial and deposition testimony and expert report: lost profits, reasonable royalty and prejudgment interest involving a patent directed to ultrasonic liposuction.
- Hyundai Electronics Industries Co., Ltd. v. NEC Corp. and NEC Electronics, Inc. United States District Court, Eastern District of Virginia (Case No. 97-2030A, Case No. 97-2031A, Case No. 98-118-A)
  Deposition testimony and expert report: reasonable royalty and prejudgment interest involving patents directed to semiconductor technology.
- Hitachi, LTD. v. Samsung Display Devices Co., LTD.; Samsung Display Devices, Inc.; Samsung Electronics Co., LTD.; Samsung Electronics America, Inc.; and Office Depot, Inc. United States District Court, Eastern District of Virginia (Case No. 97-1988-A)
  Deposition testimony and expert report: reasonable royalty and prejudgment interest involving patents directed to various aspects of cathode ray tubes.

#### Stairmaster Sports/Medical Products, a Limited Partnership v. Groupe Procycle, Inc. and Procycle USA, Inc.

United States District Court, District of Delaware (Case No. 97-396 MMS)

Deposition testimony and expert report: lost profits, reasonable royalty and prejudgment interest involving a patent directed to stair climbing fitness equipment.

#### Angelo Mongiello's Children, LLC v. Pizza Hut, Inc.

United States District Court, Eastern District of New York (Case No. 95 CV 4601)

Deposition testimony and expert report: reasonable royalty and prejudgment interest involving a patent directed to a method for forming pizza shells.

#### BTG v. Magellan Corp.; 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.

#### Micro Chemical, Inc. v. Lextron, Inc.

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 eigarette 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.

United States District Court, Northern District of Oklahoma (Case No. 93-C 1102)

Deposition testimony and expert report: reasonable royalty involving a patent directed to coker heater refinery equipment.

#### Beloit Corp. v. Valmet Corp., et al.

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.

#### Burke, Inc. v. Everest & Jennings, Inc. et al./Burke, Inc. v. Invacare Corp.

United States District Court, California Central District (Case No. 89-2613 (KMW)/Case No. 90-787 (KMW))

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

#### Bauer Inc. 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. Denver Instrument Co., et al.

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

United States District Court, Southern District of Indiana (Case No. EV 94-56-C)
Trial and deposition testimony and expert report: reasonable royalty involving a patent directed to a guiding device used in enteral delivery set assemblies.

Crown Equipment Corp. v. The Raymond Corp.

United States District Court, Northern District of Ohio (Case No. 3:93CV7356)
Trial and deposition testimony and expert report: lost profits, reasonable royalty and prejudgment interest involving a patent directed to lift truck technology.

Mitsubishi Kasei Corp.; and Mitsubishi Kasei America, Inc. v. <u>Virgle Hedgcoth; and Mertec</u>
 Licensing Technology

United States District Court, Northern District of California (Case No. 94-1971 SAW (JSB))

Deposition testimony and expert report: reasonable royalty involving a patent directed to sputtered rigid disks used in personal computers.

Travelers Express Co. Inc. v. The Standard Register Co.

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.

Dow Chemical Co. v. The United States

Court of Federal Claims (Case No. 19-83C)

Trial and deposition testimony: measure and amount of delay compensation in an eminent domain case over the taking of a patent directed to the back - filling of abandoned coal mines.

#### **Trade Secret Cases**

 In the Matter of Certain Sulfentrazone, Sulfentrazone Compositions, and Processes for Making Sulfentrazone (FMC (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 (<u>Organik Kimya</u> (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.
- MacDermid, Inc. 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.</u>, <u>Wyeth LLC</u>, <u>Wyeth Consumer 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.

- E. I. du Pont de Nemours and Company 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.
- CA, Inc.; Computer Associates Think, Inc.; Platinum Technology International. Inc.; and Platinum Technology IP, Inc., v. Rocket Software, Inc. United States District Court, Eastern District of New York (Case No. 07-CV-1476 (ADS)(MLO) Deposition testimony and expert report: lost profits, unjust enrichment, price erosion and prejudgment interest involving copyrights and trade secrets related to DB2 software tools.
- 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.
- Cogent Systems, Inc. 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.
- Geomatrix, LLC and David A. Potts v. Infiltration Systems, Inc.
   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.
- McMahon Marketing v. <u>Toyota Motor Sales</u>
   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.
- Takata Corp. v. AlliedSignal, Inc. and Breed Technologies, Inc. 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.

Trimless-Flashless Design, Inc. v. Augat, Inc.; Thomas & Betts Corp.; and Tyco International,

- Ltd.
  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. Hewlett-Packard Co. 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.

DSC Communications Corp. 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.

Wayne State University; Lumigen Inc.; and A. Paul Schapp 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. Toys "R" Us-Delaware, Inc.

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.

• The Coryn Group II, LLC 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.

YSL Beauté v. Oscar de la Renta, Ltd.

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.

Fishman Transducers, Inc. v. <u>Stephen Paul d/b/a "Esteban" Daystar Productions and HSN Interactive LLC</u>

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.

Fuel Clothing Co., Inc. v. Safari Shirt Co. d/b/a Fuel Clothing Co., Inc.

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. General Foam Plastics Corp.

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 extreme sports applications.

AutoNation, Inc. 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.

#### Copyright Cases

American Society for Testing and Materials d/b/a ASTM International; National Fire Protection Association, Inc.; and American Society of Heating, Refrigerating, and Air Conditioning Engineers, Inc. v. Public.Resource.org, Inc.

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.

- Complex Systems, Inc. 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.
- Shepard Fairey and Obey Giant Art, Inc. 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))
  Deposition testimony and expert report: fair use, damages and profits involving copyrighted photograph of President Obama.
- CA, Inc.; Computer Associates Think, Inc.; Platinum Technology International, Inc.; and Platinum Technology IP, Inc., v. Rocket Software, Inc.
  United States District Court, Eastern District of New York (Case No. 07-CV-1476 (ADS)(MLO)
  Deposition testimony and expert report: lost profits, unjust enrichment, price erosion and prejudgment interest involving copyrights and trade secrets related to DB2 software tools.
- Alpha International, Inc. v. General Foam Plastics Corp. 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.
- Insight Development Corp. v. Hewlett-Packard Co. 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.
- First National Bank of Omaha v. Three Dimensions Systems Products, Inc. United States District Court, District of Nebraska (Case No. 8:98CV569)
  Trial and deposition testimony and expert report: damages and profits associated with an alleged contract breach and copyright infringement involving financial services software.
- Leslie Atkins v. Benson J. Fischer, et al. United States District Court, District of Columbia (Case No. 1:98CV00800)
  Deposition testimony and expert report: damages and profits associated with copyright infringement covering beer label and packaging designs.

Wrench LLC v. Taco Bell Corp.

United States District Court, Southern District of Michigan (Case No. 1:98-CV-45)
Trial and deposition testimony and expert report: unjust enrichment and actual damages involving chihuahua promotional campaign.

DSC Communications Corp. 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.

#### **Breach of Contract Cases**

- Bayer CropScience AG and Bayer CropScience NV 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.
- Immunomedics Inc. v. Nycomed GmnH (n/k/a Takeda GmbH), Takeda Pharmaceutical Company Limited, and Takeda Pharmaceuticals International, Inc. International Center for Dispute Resolution
  Arbitration hearing and expert report: diminution of value associated with the delayed/failed development of a monoclonal antibody drug to treat various autoimmune diseases.
- 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.
- General Assurance of America, Inc. v. Overby-Seawell Company
  United States District Court, Eastern District of Virginia, Alexandria Division (Case No. 1:11CV483)
  Deposition testimony and expert report: damages and profits associated with obligations arising from a contract involving specialized insurance products.
- 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.
- Amkor Technology, Inc. v. Tessera, Inc.
  International Chamber of Commerce, International Court of Arbitration (Case No.166531/VRO Hearing and deposition testimony and expert report: royalty payments due under a contract directed to semiconductor packaging technology.
- Max-Planck-Gesellschaft zur Förderung der Wissenschaften E. V.; Max-Planck-Innovation GmbH; and Alnylam Pharmaceuticals, Inc. v. Whitehead Institute for Biomedical Research; Massachusetts Institute of Technology; and the Board of Trustees of the University of Massachusetts

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.

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.

#### IMTEC Imaging LLC v. CyberMed, Inc.

JAMS Arbitration (Reference No.1410005418)

Arbitration hearing and deposition testimony and expert report: lost profits and development costs associated with the alleged breach of a contract involving a software license agreement directed to cone beam computed tomography machines used in dental applications.

#### Biosynexus, Inc. v. Glaxo Group Limited and MedImmune, Inc.

New York Supreme Court, County of New York (Case No. 604485/05)

Deposition testimony and expert report: diminution of value associated with the delayed/failed development of a pediatric anti-infective drug.

#### 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.

#### ETEX Corp. v. Medtronic, Inc.; Medtronic International Limited; and Medtronic Sofamor Danek, Inc.

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.

- Audiotext International, Ltd. and New Media Group, Inc. v. Sprint Communications Co., L.P. United States District Court, Eastern District of Pennsylvania (Case No.03-CV-2110) Deposition testimony and expert report: non-delivery damages involving contracts covering resale of telecommunications services.
- Medtronic Sofamor Danek, Inc. 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. Air Products and Chemicals, Inc. and Ashland, Inc.

Delaware Chancery Court, County of New Castle (Case No.20434-NC)

Trial and deposition testimony and expert report: lost profits associated with alleged contractual breach and tortious interference as well as irreparable harm inquiry involving a strategic alliance to provide electronic chemicals, gases and services to the semiconductor industry.

#### 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.

Interactive Return Service, Inc. v. Virginia Polytechnic Institute and State University, et al.

Circuit Court for the City of Richmond (Case No.LM-870-3)

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

#### City of Hope National Medical Center v. Genentech, Inc.

Superior Court, State of California, County of Los Angeles (Case No. BC215152)

Deposition testimony and expert report: damages associated with alleged breach of contract involving license fees for use of recombinant DNA technology.

#### Igen International, Inc. v. Roche Diagnostics GmbH

United States District Court, Southern Division of Maryland (Case No. PJM 97-3461)
Trial and deposition testimony and expert report: damages and profits associated with an alleged breach of contract involving electrochemiluminescent detection technology used in DNA probe and immunoassay kits.

# Trimless-Flashless Design, Inc. v. <u>Augat, Inc.; Thomas & Betts Corp.; Tyco International, Ltd.</u> 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.

#### New Industries Co. (Sudan) Ltd. v. PepsiCo, Inc.

American Arbitration Association (Case No. 50 T 114 00001 95)
Arbitration hearing and expert report: damages and profits associated with breaches of PepsiCo franchise agreement.

#### 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.

#### First National Bank of Omaha v. Three Dimensions Systems Products, Inc.

United States District Court, District of Nebraska (Case No. 8:98CV569)
Trial and deposition testimony and expert report: damages and profits associated with an alleged contract breach and copyright infringement involving financial services software.

#### Computer Aid v. Hewlett-Packard

United States District Court, Eastern District of Pennsylvania (Case No. (C-96-3085 (MHP)) Deposition testimony and expert report: appropriate discount rate and prejudgment interest rate involving a failed software development contract.

#### Wrench LLC v. Taco Bell Corp.

United States District Court, Southern District of Michigan (Case No. 1:98-CV-45)
Trial and deposition testimony and expert report: unjust enrichment and actual damages involving chihuahua promotional campaign.

#### 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.

#### **Antitrust Cases**

#### Rambus Inc., v. Micron Technology, Inc.

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. Medtronic, Inc.; Medtronic International Limited; and Medtronic Sofamor Danek, Inc. 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.

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.

#### DSC Communications Corp. 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.

#### Travelers Express Co. Inc. v. The Standard Register Co.

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.

#### **General Tort Cases**

#### General Assurance of America, Inc. v. Overby-Seawell Company

United States District Court, Eastern District of Virginia, Alexandria Division (Case No.1:11CV483) Deposition testimony and expert report: damages and profits associated with obligations arising from a contract involving specialized insurance products.

#### The Osage Tribe of Indians of Oklahoma v. The United States of America

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.

#### Biosynexus, Inc. v. Glaxo Group Limited; and MedImmune, Inc.

New York Supreme Court, County of New York (Case No. 604485/05)

Deposition testimony and expert report: diminution of value associated with the delayed/failed development of a pediatric anti-infective drug.

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

United States District Court, District of Delaware (Case No. 05-614-SLR)

Deposition testimony and expert report: unjust enrichment and value of property associated with tortious conversion, unfair trade practices and unfair competition involving proprietary technology directed to vaccines.

#### Alpha International, Inc. v. General Foam Plastics Corp.

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.

Medtronic Sofamor Danek, Inc. 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> Chemicals, Inc. and Ashland, Inc.

Delaware Chancery Court, County of New Castle (Case No.20434-NC)

Trial and deposition testimony and expert report: lost profits associated with alleged contractual breach and tortious interference as well as irreparable harm inquiry involving a strategic alliance to provide electronic chemicals, gases and services to the semiconductor industry.

- Interactive Return Service, Inc. v. <u>Virginia Polytechnic Institute and State University</u>, et al. Circuit Court for the City of Richmond (Case No.LM-870-3)
   Deposition testimony: lost profits and lost licensing fees involving contracts to develop interactive/return path communications.
- Omega Engineering, Inc. 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.

- 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.
- Hunter Group, Incorporated 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. <u>United Way of America et al.</u>
   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.

• AutoNation, Inc. 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.

 In the Matter of Certain Sulfentrazone, Sulfentrazone Compositions, and Processes for Making Sulfentrazone (FMC (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 (VIA Technologies, Inc., Centaur Technology, IP-First LLC (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 (Bavarian Nordic A/S (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

- TattleTale Portable Alarm Systems, Inc. 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. Cohen Mohr, LLP; Dan Duval; Perkins Coie, LLP; Perkins Coie, L.P.C.; Perkins Coie, D.C.P.C.; and Perkins Coie, California, P.C. 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. Nexsen Pruet Jacobs & Pollard, LLP 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

State of Colorado District Court, City and County of Denver (Case No. 97-CV-7129)
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- "Use of the 25% Rule in Valuing Intellectual Property," Center for Continuing Education, Santa Clara, California, December 1999.
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- "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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APPENDIX 2

#### OPHTHALMIC NSAIDS TOTAL SALES UNITED STATES

			2005			200	0			200	/	
		Q2	Q3	Q4	Ql	Q2	Q3	Q4_	Q1	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
Diclofenac Sodium Voltaren® Diclofenac 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 \$311	\$45 \$552	\$35 \$523	\$34 \$521
Ketorolac Trometh Acular LS® Acular PF® Acuvails* 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	\$9,571 \$15.582 \$225
Nepalenac Nevanac® Hevro®			\$616	\$5.570	\$6.634	\$7,545	\$7,419	\$7,672	\$7,831	\$8.992	\$9,638	\$10,615
Total		\$31,833	\$31,513	\$32,970	\$34,111	\$40,588	\$39,482	\$40,512	\$43,322	\$50,356	\$51,017	\$51,155
Total (Excluding Flurbiprofen Sodium products and Acular PF/R)		\$30,818	\$30,575	\$32,066	\$33,337	\$39,703	\$38,679	\$39,670	\$42,524	\$49,511	\$50.211	\$50.375
Total Xibrom%/Bromday%/Prolensa@		\$572	\$1,331	\$2,094	\$3,304	\$5,083	\$5,602	\$6,875	\$7,673	\$9,717	\$10,687	\$11,693
		200	W.			200	0			201	ń.	
	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	01	Q2	Q3	Q4
Bromfenac Sodium Xibrom Bromday® Protensa® Bromfenac Sodium	\$12,606	\$14,726	\$15,529	\$17,337	\$19,769	\$22,691	\$23,538	\$24,348	\$25,711	\$30,111	\$32,673	\$34,106
Dictofenae Sodium Voltaren'ă Dictofenae Sodium	\$1,532	\$931	\$594	\$444	\$398	\$344	\$186	\$117	299	\$90	\$64 \$612	\$59 \$634
	\$623	\$606	\$587	\$511	\$552	\$596	\$666	\$631	\$772	\$599	2012	20124
Flurbiprofen Sodium Ocufen® Flurbiprofen Sodium	\$623 \$31 \$495	\$606 \$26 \$525							\$772 \$19 \$458	\$599 \$20 \$488	\$18 \$482	\$21 \$490
Ocufen®	\$31	\$26	\$587 \$27	\$511 \$23	\$552 \$26	\$596 \$22	\$66G \$21	\$631 \$19	\$19	\$20	\$18	\$21
Ocufen® Flarbiprofen Sodium Ketorolac Trometh Acular® Acular LS® Acular PF® Acular B® Acusari®	\$31 \$495 \$9,729 \$15,594	\$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	\$19 \$458 \$1,914 \$1,485 \$2 \$11,407	\$20 \$488 \$1,364 \$1,050 \$0 \$5,723	\$18 \$482 \$1,067 \$953 \$0 \$5,251	\$21 \$490 \$852 \$929 \$3,743
Oculent Flarbiprofen Sedium Ketorolac Trometh Acular® Acular LS® Acular FE® Acular IFE® Acular IFE® Acuvail® Ketorolac Trometh Nepafenac Nevanac®	\$31 \$495 \$9,729 \$15,594 \$248	\$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 \$21,650 \$199 \$1,556	\$631 \$19 \$488 \$7,015 \$9,755 \$15 \$13,692 \$2,316	\$19 \$458 \$1,914 \$1,485 \$2 \$11,407 \$2,371	\$20 \$488 \$1,364 \$1,050 \$0 \$5,723 \$2,758	\$18 5482 \$1,067 \$953 \$0 \$5,251 \$2,738	\$21 \$490 \$852 \$929 \$3,743 \$2,830
Ocufen® Flarbiprofen Sedium Ketorolac Trometh Acular® Acular LS® Acular PE® Acular PF® Acurail® Ketorolac Trometh Nepafenac Nevanac® Ilevro®	\$31 \$495 \$9,729 \$15,594 \$248	\$26 \$525 \$11,512 \$17,868 \$262	\$587 \$27 \$510 \$10,534 \$17,905 \$261	\$23 \$491 \$9,696 \$17,888 \$245	\$552 \$26 \$506 \$10,626 \$20,849 \$289	\$596 \$22 \$503 \$12,826 \$23,031 \$331 \$14,547	\$21 \$506 \$12,318 \$21,650 \$199 \$1,556	\$631 \$19 \$488 \$7,015 \$9,755 \$15 \$13,692 \$2,316 \$16,723	\$19 \$458 \$1,914 \$1,485 \$2 \$11,407 \$2,371 \$17,815	\$20 \$488 \$1,384 \$1,050 \$0 \$5,723 \$2,758 \$20,506	\$18 \$482 \$1,067 \$953 \$0 \$5,251 \$2,738 \$20,633	\$21 \$490 \$852 \$929 \$3,743 \$2,830 \$22,945
Ocufen® Flarbiprofen Sodium Ketorolac Trometh Acular® Acular LS® Acular PF® Acular PF® Acusai® Ketorolac Trometh Nepafenoc Nevanac® Hevro® Total Total (Excluding Flurbiprofen Sodium	\$31 \$495 \$9,729 \$15,594 \$248 \$10,691	\$26 \$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 \$58,026	\$552 \$26 \$506 \$10,626 \$20,849 \$289 \$12,926 \$65,941	\$596 \$22 \$503 \$12,826 \$23,031 \$331 \$14,547 \$74,891	\$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	\$19 \$458 \$1,914 \$1,485 \$2 \$11,407 \$2,371 \$17,815	\$20 \$488 \$1,364 \$1,050 \$0 \$5,723 \$2,758 \$20,506	\$18 \$482 \$1,067 \$953 \$0 \$5,251 \$2,738 \$20,633	\$21 \$490 \$852 \$929 \$3,743 \$2,830 \$22,945

APPENDIX 2

#### OPHTHALMIC NSAIDS TOTAL SALES UNITED STATES

		201	1			201	7			201	3	
200-011000-020000	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	QI	Q2	Q3	Q4
Bromfenac Sodium Xibrom@ Bromday@ Prolensa@	\$20,408 \$10,705	\$7,706 \$16,20%	\$199 \$21,107	\$57 \$28,003	\$9 \$28.582	\$1 \$29,561	\$3 \$29,045	\$3 \$29,046	\$27,904	\$23,785 \$4,786	\$8.681 \$16,492	\$265 \$23,023
Bromfenae Sodium		\$3,753	\$4,042	\$4,954	\$5,278	\$5,651	\$5,246	\$5,397	\$5,968	\$6,623	\$5,767	\$6,701
Dictofenae Sodium Voltaren®	\$56	\$49	\$35	\$32	\$11	\$2	02	\$0				
Diclofenac Sodium	\$673	\$792	\$748	\$802	\$728	\$750	\$777	\$723	\$701	\$757	\$740	\$722
Flurbiprofen Sodium Ocusen® Flurbiprofen Sodium	\$15 \$470	\$16 \$520	\$16 \$465	\$18 \$475	\$22 \$455	\$23 \$477	\$18 \$468	\$18 \$461	\$17 \$439	\$11 \$483	\$14 \$490	\$13 \$481
Ketorolac Tromoth	200		T TO ALCOY			7/	No.				(5)	-
Acular® Acular LS® Acular PF®	2821 2838	\$724 \$704	\$739 \$613	\$547 \$431	\$496 \$421	\$474 \$352	\$453 \$359	\$388 \$299	\$441 \$285	\$432 \$247	\$418 \$209	\$354 \$459
Acuvail® Ketorolae Trometh	\$2,945 \$2,923	\$2,265 \$3.672	\$2,117 \$3,442	\$1,859 \$3.621	\$1,690 \$3,292	\$1,013 \$3,464	\$933 \$3,834	\$990 \$3,396	\$1,023 \$3,265	\$897 \$3,669	\$848 \$3,583	\$803 \$3,483
Nepafenac Nevanac® Revro®	\$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	\$23,017 \$14,821
Total	\$63,861	\$61,205	\$57,863	\$67,219	\$68,670	571,371	574,504	\$76,269	\$76,045	\$78,037	\$74,413	\$74,143
Total (Excluding Flurbiprofen Sodium products and Acular PF/8)	\$63,375	\$60,669	\$57,382	\$66,727	\$68,193	\$70,871	\$74,018	\$75,789	\$75,589	\$77,543	\$73,909	\$73,649
Total Xibrom/k/Bromday/k/Prolensa®	\$31,113	\$23,914	\$21,306	\$28,060	\$28,592	\$29,561	\$29,048	\$29,048	\$27,904	\$28,572	\$25,173	\$23,288
	-	201				2015		2013 Q2 -				
Bromfenac Sodium	Q1	Q2	Q3	Q4	Q1	Q2	Q3	2015 Q3				
Xihrom®												
Bromday® Prolensa®	\$26	\$10	\$2	634 473	620 712	\$30,360	12	\$32,769				
Bromfenac Sodium	\$25.751 \$8,072	\$28,456 \$6,470	\$28,667 \$5,552	\$28,473 \$5,741	\$29,713 \$4,502	\$4,421	\$31,181	\$246,902 \$57,592				
Diclofense Sodium Voltaren®												
Dielofenae Sodium	\$635	\$650	\$616	\$602	\$591	\$610	\$799	\$6,722				
Flurbiprofen Sodium Ocufen® Flurbiprofen Sodium	\$11 \$464	\$12 \$459	\$13 \$457	\$10 \$450	\$12 \$471	\$13 \$502	\$17 \$473	\$127 \$4,730				
Ketorolac Trometh												
Acular (1) Acular LS® Acular PF®	\$425	\$401	\$288	\$343	\$390	\$293	\$278	\$3,623				
	\$648	\$449	\$456	\$316	\$303	\$271	\$335	\$3,694				
Acuvail® Ketorolae Trometh	\$648 \$781 \$4,451						\$335 \$511 \$7,391	\$3,694 \$6,889 \$55,108				
Acuvail90	\$781	\$449 \$701	\$456 \$649	\$316	\$303 \$570	\$271 \$524	\$511	\$6,889				
Acuvail% Keterolae Trometh Nepafenae Nevanae® Hevro®	\$781 \$4,451 \$19,443	\$449 \$701 \$5,153 \$17,287	\$456 \$649 \$5,880 \$16,681	\$316 \$605 \$6,344 \$15,197	\$303 \$570 \$7,269 \$12,975	\$271 \$524 \$7,884 \$12,832	\$511 \$7,391 \$11,581	\$6,889 \$55,108 \$190,548				
Acuvail® Ketorolac Trometh Nepafenac Nevanac®	\$781 \$4,451 \$19,443 \$19,826	\$449 \$701 \$5,153 \$17,287 \$25,243	\$456 \$649 \$5,880 \$16,681 \$29,663	\$316 \$605 \$6,344 \$15,197 \$33,143	\$303 \$570 \$7,269 \$12,975 \$33,390	\$271 \$524 \$7,884 \$12,832 \$39,320	\$511 \$7,391 \$11,581 \$40,765	\$6,889 \$55,108 \$190,548 \$248,153				

Notes & Sources: In thousands From IMS Data

#### APPENDIX 3

# 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	QI	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® Acular LS® Acuvail® Ketorolac Trometh		51 4% 29 8%	44.7% 33.0%	36.0% 27.9%	32.8% 27.1%	32.5% 26.5%	28.7% 28.9%	24.5% 30.7%	23.9% 31.3%	24.0% 31.1%	21.4% 31.7%	19 0% 30 9%
Nepafenac Nevanac® Ilevro®			2.0%	17.4%	19.9%	19.0%	19.2%	19.3%	18.4%	18.2%	19.2%	21.1%
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®		1.9%	4,4%	6.5%	9.9%	12.8%	14.5%	17.3%	18.0%	19.6%	21.3%	23.2%
		2008	1			2009	)			2010	)	
	Q1	Q2	Q3	Q4	QI	Q2	Q3	Q4	Q1	Q2	Q3	Q4
Bromfensc Sodium Xibrom® Bromday® Protensa® Bromfensc 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%
Diclofenac Sodium Voltaren® Diclofenac Sodium	3.0% 1.2%	1.6%	1.0%	0.8%	0.6%	0.5%	0.2% 0.9%	0.2%	0.2% 1.3%	0.1% 1.0%	0.1% 1.0%	0.1%
Ketorolac Trometh Acular® Acular LS® Acuvail® Ketorolac Trometh	19.2% 30.7%	19.8% 30.7%	18.2% 30.9%	16.9% 31.2%	16.3% 32.0%	173% 31-1%	16.3% 28.6% 2.1%	9.4% 13.1% 18.4% 3.1%	3.1% 2.4% 18.5% 3.9%	2.2% 1.7% 9.2% 4.4%	1.7% 1.5% 8.2% 4.3%	1.3% 1.4% 5.5% 4.2%
Nepafenac Nevanac®	21.1%	21.6%	22.2%	19.9%	19.8%	19 6%	20.8%	22 4%	28 9%	33.0%	32.2%	33 7%
Hevro®												
Ilevro® 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%

#### APPENDIX 3

## 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
	242		700								
32.2%	12.7%	0.3%	0.1%	0.0%	0.0%	0.0%	0.0%				
16.9%	26.7%	36.8%	42.0%	41.9%	41.7%	39.2%	38.3%	36.9%			0.4%
											313%
	6.2%	7.0%	7.4%	7.7%	8,0%	7.1%	7.1%	7.9%	8.5%	7.8%	9.1%
0.1%	0.1%	0.1%	0.0%	0.0%	0.0%	0.0%	0.0%				
1.1%	1.3%	1.3%	1.2%	1.1%	1.1%	1.0%	1.0%	0.9%	1.0%	1.0%	1.0%
1 3%	1.7%	1.3%	0.8%	0.7%	0.7%	0.6%	0.5%	0.6%	0.6%	0.6%	0.5%
											0.6%
											1.1%
											4.7%
40000E	1.170555554	e-rossed.	Time (City)	HARMAS.	ುಡಬ್ಬಾಬರೆ		80000E0	195350255	ಚಾನಗಳು.	3007007	10525.53
37 004	40.9%	12.1%	30 60/	10.6%	A1 50%	45 10/	46 00/	46 494	12 194	37 79/	313%
31.576	40.776	42,470	39.076	40.078	41.070	43.170	40.570				20.1%
100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%		000000		100.0%
											31.6%
42-170	32.470	37:170	72.170	71.770	71.770	27.470	30.370	20.270	50.074	277.04 70	31,070
2					2015	- 2	2013 Q2 -				
Q1	Q2	Q3	Q4	Q1	Q2	Q3	2015 Q3				
0.0%	0.0%	0.0%				0.0%	3.8%				
32.2%	33,5%	32.4%	31.4%	33.1%	31.5%	32.3%	29.0%				
	33.5% 7.6%		31.4% 6.3%	33.1% 5.0%	31.5% 4.6%		29.0% 6.8%				
32,2%		32.4%				32.3%					
32,2%		32.4%				32.3%					
32,2%		32.4%				32.3%					
32.2% 10.1%	7.6%	32.4% 6.3%	6.3%	5.0%	4.6%	32.3% 3.9%	6.8%				
32.2% 10.1% 0.8%	7.6%	32.4% 6.3% 0.7%	6.3% 0.7%	5.0% 0.7%	4.6% 0.6%	32.3% 3.9% 0.8%	0.8%			,	
32.2% 10.1% 0.8%	7.6% 0.8% 0.5%	32.4% 6.3% 0.7%	6.3% 0.7% 0.4%	5.0% 0.7% 0.4%	4.6% 0.6% 0.3%	32.3% 3.9% 0.8%	6.8% 0.8% 0.4%				
32.2% 10.1% 0.8% 0.5% 0.8%	7.6% 0.8% 0.5% 0.5%	32.4% 6.3% 0.7% 0.3% 0.5%	0.7% 0.4% 0.3%	5.0% 0.7% 0.4% 0.3%	4.6% 0.6% 0.3% 0.3%	32.3% 3.9% 0.8% 0.3% 0.3%	0.8% 0.4% 0.4%			*	
32.2% 10.1% 0.8%	7.6% 0.8% 0.5%	32.4% 6.3% 0.7%	6.3% 0.7% 0.4%	5.0% 0.7% 0.4%	4.6% 0.6% 0.3%	32.3% 3.9% 0.8% 0.3% 0.3% 0.5%	6.8% 0.8% 0.4%			,	
32.2% 10.1% 0.8% 0.5% 0.8% 1.0%	7.6% 0.8% 0.5% 0.5% 0.8%	32.4% 6.3% 0.7% 0.5% 0.5% 0.7%	0.7% 0.4% 0.3% 0.7%	5.0% 0.7% 0.4% 0.3% 0.6%	4.6% 0.6% 0.3% 0.3% 0.5%	32.3% 3.9% 0.8% 0.3% 0.3%	0.8% 0.8% 0.4% 0.4% 0.8%			,	
32.2% 10.1% 0.8% 0.5% 0.8% 1.0% 5.6%	7.6% 0.8% 0.5% 0.5% 0.8% 6.1%	32.4% 6.3% 0.7% 0.3% 0.5% 0.7% 6.6%	0.7% 0.4% 0.3% 0.7% 7.0%	5.0% 0.7% 0.4% 0.3% 0.6% 8.1%	4.6% 0.6% 0.3% 0.3% 0.5% 8.2%	32.3% 3,9% 0.8% 0.3% 0.3% 0.5% 7.7%	0.8% 0.8% 0.4% 0.4% 0.8% 6.5%			,	
32.2% 10.1% 0.8% 0.5% 0.8% 1.0% 5.6%	7.6%  0.8%  0.5%  0.5%  0.8%  6.1%  20.4%	32.4% 6.3% 0.7% 0.3% 0.5% 0.7% 6.6%	6.3% 0.7% 0.4% 0.3% 0.7% 7.0%	5.0% 0.7% 0.4% 0.3% 0.6% 8.1%	4.6%  0.6%  0.3%  0.3%  0.5%  8.2%	32.3% 3.9% 0.8% 0.3% 0.3% 0.5% 7.7%	0.8% 0.8% 0.4% 0.8% 6.5%			,	
32.2% 10.1% 0.8% 0.5% 0.8% 1.0% 5.6% 24.3% 24.8%	7.6%  0.8%  0.5% 0.5% 0.8% 6.1%  20.4% 29.8%	32.4% 6.3% 0.7% 0.3% 0.5% 0.7% 6.6%	6.3% 0.7% 0.4% 0.3% 0.7% 7.0% 16.7% 36.5%	5.0% 0.7% 0.4% 0.3% 0.6% 8.1% 14.5% 37.2%	4.6%  0.6%  0.3%  0.5%  8.2%  13.3%  40.7%	32.3% 3.9% 0.8% 0.3% 0.5% 7.7% 12.0% 42.2%	0.8% 0.4% 0.4% 0.8% 6.5% 22.4% 29.1%			,	
32.2% 10.1% 0.8% 0.5% 0.8% 1.0% 5.6%	7.6%  0.8%  0.5%  0.5%  0.8%  6.1%  20.4%	32.4% 6.3% 0.7% 0.3% 0.5% 0.7% 6.6%	6.3% 0.7% 0.4% 0.3% 0.7% 7.0%	5.0% 0.7% 0.4% 0.3% 0.6% 8.1%	4.6%  0.6%  0.3%  0.3%  0.5%  8.2%	32.3% 3.9% 0.8% 0.3% 0.3% 0.5% 7.7%	0.8% 0.8% 0.4% 0.8% 6.5%			,	
	32.2% 16.9%	Q1 Q2  32.2% 12.7% 16.9% 26.7% 6.2%  0.1% 0.1% 1.1% 1.3% 1.2% 4.6% 3.7% 4.6% 6.1%  37.9% 40.9%  100.0% 100.0% 49.1% 39.4%  Q1 Q2	Q1         Q2         Q3           32.2%         12.7%         0.3%           16.9%         26.7%         36.8%           6.2%         7.0%           0.1%         0.1%         0.1%           1.1%         1.3%         1.3%           1.3%         1.2%         1.1%           4.6%         3.7%         3.7%           4.6%         6.1%         6.0%           37.9%         40.9%         42.4%           100.0%         100.0%         100.0%           49.1%         39.4%         37.1%           2014         Q2         Q3	Q1         Q2         Q3         Q4           32.2%         12.7%         0.3%         0.1%           16.9%         26.7%         36.8%         42.0%           6.2%         7.0%         7.4%           0.1%         0.1%         0.0%           1.1%         1.3%         1.3%         1.2%           1.3%         1.2%         1.3%         0.8%           1.3%         1.2%         1.1%         0.6%           4.6%         3.7%         3.7%         2.8%           4.6%         6.1%         6.0%         5.4%           37.9%         40.9%         42.4%         39.6%           100.0%         100.0%         100.0%         100.0%           49.1%         39.4%         37.1%         42.1%           2014         Q1         Q2         Q3         Q4	Q1         Q2         Q3         Q4         Q1           32.2%         12.7%         0.3%         0.1%         0.0%           16.9%         26.7%         36.8%         42.0%         41.9%           6.2%         7.0%         7.4%         7.7%           0.1%         0.1%         0.0%         0.0%           1.1%         1.3%         1.2%         1.1%           1.3%         1.2%         1.3%         0.8%         0.7%           1.3%         1.2%         1.1%         0.6%         0.6%           4.6%         3.7%         3.7%         2.8%         2.5%           4.6%         6.1%         6.0%         5.4%         4.8%           37.9%         40.9%         42.4%         39.6%         40.6%           100.0%         100.0%         100.0%         100.0%         100.0%           49.1%         39.4%         37.1%         42.1%         41.9%           2014         Q1         Q2         Q3         Q4         Q1	QI         Q2         Q3         Q4         Q1         Q2           32.2%         12.7%         0.3%         0.1%         0.0%         0.0%           16.9%         26.7%         36.8%         42.0%         41.9%         41.7%           6.2%         7.0%         7.4%         7.7%         8.0%           0.1%         0.1%         0.0%         0.0%         0.0%           1.1%         1.3%         1.3%         1.2%         1.1%         1.1%           1.3%         1.2%         1.3%         0.8%         0.7%         0.7%         0.7%           1.3%         1.2%         1.1%         0.6%         0.6%         0.5%         4.6%         0.5%         4.6%         0.5%         4.6%         0.5%         4.6%         0.5%         4.6%         4.8%         4.9%           37.9%         40.9%         42.4%         39.6%         40.6%         41.8%           100.0%         100.0%         100.0%         100.0%         100.0%         40.6%         41.8%           100.0%         100.0%         100.0%         100.0%         100.0%         40.9%         41.7%           2014         204         Q1         Q2	Q1         Q2         Q3         Q4         Q1         Q2         Q3           32.2%         12.7%         0.3%         0.1%         0.0%         0.0%         0.0%           16.9%         26.7%         36.8%         42.0%         41.9%         41.7%         39.2%           6.2%         7.0%         7.4%         7.7%         8.0%         7.1%           0.1%         0.1%         0.0%         0.0%         0.0%         0.0%           1.1%         1.3%         1.3%         1.2%         1.1%         1.1%         1.0%           1.3%         1.2%         1.3%         0.8%         0.7%         0.7%         0.6%           1.3%         1.2%         1.1%         0.6%         0.5%         0.5%           4.6%         3.7%         3.7%         2.8%         2.5%         1.4%         1.3%           4.6%         6.1%         6.0%         5.4%         4.8%         4.9%         5.2%           37.9%         40.9%         42.4%         39.6%         40.6%         41.8%         45.1%           100.0%         100.0%         100.0%         100.0%         100.0%         100.0%         41.7%         39.2% </td <td>Q1         Q2         Q3         Q4         Q1         Q2         Q3         Q4           32.2%         12.7%         0.3%         0.1%         0.0%         0.0%         0.0%         0.0%           16.9%         26.7%         36.8%         42.0%         41.9%         41.7%         39.2%         38.3%           6.2%         7.0%         7.4%         7.7%         8.0%         7.1%         7.1%           0.1%         0.1%         0.0%         0.0%         0.0%         0.0%         0.0%           1.1%         1.3%         1.3%         1.2%         1.1%         1.0%         1.0%           1.3%         1.2%         1.3%         0.8%         0.7%         0.7%         0.6%         0.5%           1.3%         1.2%         1.1%         0.6%         0.5%         0.5%         0.5%         0.4%           4.6%         3.7%         3.7%         2.8%         2.5%         1.4%         1.3%         1.3%           4.6%         5.1%         6.0%         5.4%         4.8%         4.9%         5.2%         4.5%           37.9%         40.9%         42.4%         39.6%         40.6%         41.8%         45.1%<!--</td--><td>QI         Q2         Q3         Q4         Q1         Q2         Q3         Q4         Q1           32.2%         12.7%         0.3%         0.1%         0.0%         0.0%         0.0%         0.0%         10.0%           16.9%         26.7%         36.8%         42.0%         41.9%         41.7%         39.2%         38.3%         36.9%           6.2%         7.0%         7.4%         7.7%         8.0%         7.1%         7.1%         7.9%           0.1%         0.1%         0.0%         0.0%         0.0%         0.0%         0.0%         1.0%         0.9%           1.1%         1.3%         1.3%         1.2%         1.1%         1.0%         1.0%         0.9%           1.3%         1.2%         1.3%         0.8%         0.7%         0.7%         0.6%         0.5%         0.6%           1.3%         1.2%         1.1%         0.6%         0.5%         0.5%         0.4%         0.4%           4.6%         3.7%         3.7%         2.8%         2.5%         1.4%         1.3%         1.3%         1.4%           4.6%         6.1%         6.0%         5.4%         4.8%         4.9%         5.2%</td><td>Q1         Q2         Q3         Q4         Q1         Q2         Q3         Q4         Q1         Q2           32.2%         12.7%         0.3%         0.1%         0.0%         0.0%         0.0%         0.0%         36.9%         30.7%         6.2%           6.2%         7.0%         7.4%         7.7%         8.0%         7.1%         7.1%         7.9%         8.5%           0.1%         0.1%         0.0%         0.</td><td>Q1         Q2         Q3         Q4         Q1         Q2         Q3         Q4         Q1         Q2         Q3           32.2%         12.7%         0.3%         0.1%         0.0%         0.0%         0.0%         0.0%         36.9%         30.7%         11.7%           6.9%         26.7%         36.8%         42.0%         41.9%         41.7%         39.2%         38.3%         36.9%         30.7%         11.7%           6.2%         7.0%         7.4%         7.7%         8.0%         7.1%         7.1%         7.9%         8.5%         7.8%           0.1%         0.1%         0.0%         0.0%         0.0%         0.0%         0.0%         1.0%</td></td>	Q1         Q2         Q3         Q4         Q1         Q2         Q3         Q4           32.2%         12.7%         0.3%         0.1%         0.0%         0.0%         0.0%         0.0%           16.9%         26.7%         36.8%         42.0%         41.9%         41.7%         39.2%         38.3%           6.2%         7.0%         7.4%         7.7%         8.0%         7.1%         7.1%           0.1%         0.1%         0.0%         0.0%         0.0%         0.0%         0.0%           1.1%         1.3%         1.3%         1.2%         1.1%         1.0%         1.0%           1.3%         1.2%         1.3%         0.8%         0.7%         0.7%         0.6%         0.5%           1.3%         1.2%         1.1%         0.6%         0.5%         0.5%         0.5%         0.4%           4.6%         3.7%         3.7%         2.8%         2.5%         1.4%         1.3%         1.3%           4.6%         5.1%         6.0%         5.4%         4.8%         4.9%         5.2%         4.5%           37.9%         40.9%         42.4%         39.6%         40.6%         41.8%         45.1% </td <td>QI         Q2         Q3         Q4         Q1         Q2         Q3         Q4         Q1           32.2%         12.7%         0.3%         0.1%         0.0%         0.0%         0.0%         0.0%         10.0%           16.9%         26.7%         36.8%         42.0%         41.9%         41.7%         39.2%         38.3%         36.9%           6.2%         7.0%         7.4%         7.7%         8.0%         7.1%         7.1%         7.9%           0.1%         0.1%         0.0%         0.0%         0.0%         0.0%         0.0%         1.0%         0.9%           1.1%         1.3%         1.3%         1.2%         1.1%         1.0%         1.0%         0.9%           1.3%         1.2%         1.3%         0.8%         0.7%         0.7%         0.6%         0.5%         0.6%           1.3%         1.2%         1.1%         0.6%         0.5%         0.5%         0.4%         0.4%           4.6%         3.7%         3.7%         2.8%         2.5%         1.4%         1.3%         1.3%         1.4%           4.6%         6.1%         6.0%         5.4%         4.8%         4.9%         5.2%</td> <td>Q1         Q2         Q3         Q4         Q1         Q2         Q3         Q4         Q1         Q2           32.2%         12.7%         0.3%         0.1%         0.0%         0.0%         0.0%         0.0%         36.9%         30.7%         6.2%           6.2%         7.0%         7.4%         7.7%         8.0%         7.1%         7.1%         7.9%         8.5%           0.1%         0.1%         0.0%         0.</td> <td>Q1         Q2         Q3         Q4         Q1         Q2         Q3         Q4         Q1         Q2         Q3           32.2%         12.7%         0.3%         0.1%         0.0%         0.0%         0.0%         0.0%         36.9%         30.7%         11.7%           6.9%         26.7%         36.8%         42.0%         41.9%         41.7%         39.2%         38.3%         36.9%         30.7%         11.7%           6.2%         7.0%         7.4%         7.7%         8.0%         7.1%         7.1%         7.9%         8.5%         7.8%           0.1%         0.1%         0.0%         0.0%         0.0%         0.0%         0.0%         1.0%</td>	QI         Q2         Q3         Q4         Q1         Q2         Q3         Q4         Q1           32.2%         12.7%         0.3%         0.1%         0.0%         0.0%         0.0%         0.0%         10.0%           16.9%         26.7%         36.8%         42.0%         41.9%         41.7%         39.2%         38.3%         36.9%           6.2%         7.0%         7.4%         7.7%         8.0%         7.1%         7.1%         7.9%           0.1%         0.1%         0.0%         0.0%         0.0%         0.0%         0.0%         1.0%         0.9%           1.1%         1.3%         1.3%         1.2%         1.1%         1.0%         1.0%         0.9%           1.3%         1.2%         1.3%         0.8%         0.7%         0.7%         0.6%         0.5%         0.6%           1.3%         1.2%         1.1%         0.6%         0.5%         0.5%         0.4%         0.4%           4.6%         3.7%         3.7%         2.8%         2.5%         1.4%         1.3%         1.3%         1.4%           4.6%         6.1%         6.0%         5.4%         4.8%         4.9%         5.2%	Q1         Q2         Q3         Q4         Q1         Q2         Q3         Q4         Q1         Q2           32.2%         12.7%         0.3%         0.1%         0.0%         0.0%         0.0%         0.0%         36.9%         30.7%         6.2%           6.2%         7.0%         7.4%         7.7%         8.0%         7.1%         7.1%         7.9%         8.5%           0.1%         0.1%         0.0%         0.	Q1         Q2         Q3         Q4         Q1         Q2         Q3         Q4         Q1         Q2         Q3           32.2%         12.7%         0.3%         0.1%         0.0%         0.0%         0.0%         0.0%         36.9%         30.7%         11.7%           6.9%         26.7%         36.8%         42.0%         41.9%         41.7%         39.2%         38.3%         36.9%         30.7%         11.7%           6.2%         7.0%         7.4%         7.7%         8.0%         7.1%         7.1%         7.9%         8.5%         7.8%           0.1%         0.1%         0.0%         0.0%         0.0%         0.0%         0.0%         1.0%

Notes & Sources: From IMS Data.

APPENDIX 4

#### OPHTHALMIC NSAIDS SHARE OF TOTAL SALES UNITED STATES

			2005			2006				2007	ė.	
		Q2	Q3	Q4	QI	Q2	Q3	Q4	Q1	Q2	Q3	04
Bromfenac Sodium Xibrom® Bromday® Prolensa® Bromfenac Sodium	_	1.8%	42%	6 4%	9.7%	12.5%	14 2%	17.0%	17.7%	193%	20.9%	22 99
Diclofenac Sodium Voltaren® Diclofenac Sodium		16.5% 0.0%	15.4% 0.0%	11.9% 0.0%	10 0%	8.9%	8.5%	8 O%	8.2%	7.0%	6.3%	5 79
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%	01% 1.0%	0 19
Ketorolac Trometh Acular® Acular LS® Acular PF® Acuvail® 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%	18.79 30.59 0.49
Nepafenac Nevanac® Hevro®			2.0%	16.9%	19.4%	18 6%	18.8%	18.9%	18.1%	17,9%	18.9%	20 8%
Total	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@		1.8%	4.2%	6.4%	9.7%	12.5%	14 2%	17.0%	17.7%	19.3%	20 9%	22 99
		2008	r .			2009	r.			2010	1	
	N CONTRACTOR		1.7 (4.77)	12211			5.000 (2.00)	-	18.7		11147477	1/4/1917
	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4
Bromfenac Sodium Xibrom® Bromday® Prolensa® Bromfenac Sodium	Q1 24,5%	Z5 0%	Q3	29.9%	Q1 30,0%	Q2 30.3%	Q3 30.8%	32 4%	41.4%	48.0%	Q3 50.7%	49 7%
Xibrom® Bromday® Prolensa®	- CONTROL OF	Urbanion*	100000000	AMPONIA	249 (0.0.1)	2000 0000	1000000000	20.000.00	1171 33403	TOTAL ST	2001.0000	49 7% 2 9% 0 19
Xibrom® Bromday® Prolensa® Bromfenac Sodium Dictofenac Sodium Voltsren®	24.5%	25.0%	26.4%	29.9%	30,0%	30.3%	30.8%	32.4%	41.4%	48.0%	50.7%	49 79 2 99 0 19 0 99
Xibrom® Bromday® Profess® Bromfenac Sodium Diclofenac Sodium Voltaren® Diclofenac Sodium Flurbiprofen Sodium Ocufen®	24.5% 3.0% 1.2% 0.1%	25 0% 1.6% 1.0%	26.4% 1.0% 1.0%	29.9% 0.8% 0.9%	30.0% 0.6% 0.8%	30 3% 0.5% 0.8%	30.8% 0.2% 0.9%	32.4% 0.2% 0.8% 0.0%	0,2% 1,2% 0,0%	48.0% 0.1% 1.0%	50 7% 0 1% 0 9% 0 0%	49 79 2 99 0 19 0 99 0 79 1 29 1 49 5 59
Xibrom® Bromday® Prolensa® Bromfenac Sodium Diclofenac Sodium Voltaren® Diclofenac Sodium Flurbiprofen Sodium Flurbiprofen Sodium Coufen® Flurbiprofen Sodium Ketorolac Trometh Acular® Aculal LS® Acular PF® Acuvail®	24,5% 3,0% 1,3% 0,1% 1,0% 18,5% 30,3%	25.0% 1.6% 1.0% 0.0% 0.9% 19.5% 30.3%	26.4% 1.0% 1.0% 0.0% 0.9% 17.9% 30.5%	29.9% 0.8% 0.9% 0.0% 0.8% 16.7% 30.8%	30.0% 0.6% 0.8% 0.0% 0.8% 16.1% 31.6%	30.3% 0.5% 0.8% 0.0% 0.7% 17.1% 30.8%	30.8% 0.2% 0.9% 0.0% 0.7% 16.1% 28.3% 0.3%	32.4% 0.2% 0.8% 0.0% 0.6% 9.3% 13.0% 0.0% 13.2%	41.4% 0.2% 1.2% 0.0% 0.7% 3.1% 2.4% 0.0% 18.4%	48.0% 0.1% 1.0% 0.0% 0.8% 2.2% 1.7% 0.0% 9.1%	50.7% 0.1% 0.9% 0.0% 0.7% 1.7% 1.5% 0.0% 8.1%	49 79/ 2 99/ 0 19/ 0 99/ 0 79/ 1 29/ 1 49/ 5 59/ 4 19/
Xibrom® Bromday® Prolensa® Bromfenac Sodium Diclofenac Sodium Voltaten® Diclofenac Sodium Flurbiprofen Sodium Ocufen® Flurbiprofen Sodium Ketorolac Trometh Aculat LS® Acular PF® Acular IS® Acular PF® Acular Ocufenac Trometh Nepafenac Nevanac®	24,5% 3,0% 1,3% 0,1% 1,0% 18,9% 30,3% 0,5%	25.0% 1.6% 1.0% 0.0% 0.9% 19.5% 30.3% 0.4%	26.4% 1.0% 1.0% 0.0% 0.9% 17.9% 30.5% 0.4%	29.9% 0.8% 0.9% 0.0% 0.8% 16.7% 30.8% 0.4%	30.0% 0.6% 0.8% 0.0% 0.8% 16.1% 31.6% 0.4%	30.3% 0.5% 0.8% 0.0% 0.7% 17.1% 30.3% 0.4%	30.8%  0.2% 0.9% 0.9% 0.7% 16.1% 28.3% 0.3% 2.0%	32.4% 0.2% 0.8% 0.0% 0.6% 9.3% 13.0% 0.0% 13.2% 3.1%	41.4% 0.2% 1.2% 6.0% 0.7% 3.1% 2.4% 0.0% 18.4% 3.8%	48.0% 0.1% 1.0% 0.0% 0.8% 2.2% 1.7% 0.0% 9.1% 4.4%	50.7% 0.1% 0.9% 0.0% 0.7% 1.7% 1.5% 0.0% 8.1% 4.2%	Q4 49 79/ 2 99/ 0 19/ 0 99/ 0 09/ 1 29/ 1 49/ 5 5/ 4 19/ 33 49/

APPENDIX 4

#### OPHTHALMIC NSAIDS SHARE OF TOTAL SALES UNITED STATES

		2011				2012				2013		
	QI	Q2	Q3	Q4	QI	Q2	Q3	Q4	Q1	Q2	Q3	Q4
Bromfenac Sodium	267200	1,22200,000	3275070	THE STATE OF THE S	TOTAL MARKET	HOLAND CHOICE	2000000	XXXXX	33000	0000		20,000
Xibrom®	32.0%	12.6%	0.3%	0.1%	0.0%	0.0%	0.0%	0.0%	27672224	mana saasa	9870 <b>223</b> 7	101122
Bromday® Prolensa®	16 8%	26 5%	36.5%	41.7%	41.6%	41 4%	39 0%	38.1%	36.7%	30.5%	11.7%	0.49
Bromfenac Sodium		6.1%	7.0%	7.4%	7.7%	7.9%	7.0%	7.1%	7.8%	6.1% 8.5%	22 2% 7 8%	31 19 9 09
		0.170	7.070	2,9926	1.170	T-2.50	7.3776	7.176	7.070	0.279	7.070	9.07
Diclofenac Sodium	178779994	100.000	1000000		00000000							
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%	0.9%	0.9%	1.0%	1.0%	1.09
Flurbiprofen Sodium												
Ocufen®	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.09
Flurbiprofen Sodium	0.7%	0.8%	0.8%	0.7%	0.7%	0.7%	0.6%	0.6%	0.6%	0.6%	0.7%	0.69
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%	0.59
Acular LS®	1 3%	1.2%	1.1%	0.6%	0.6%	0.5%	0.5%	0.4%	0.4%	0.3%	0.3%	0.69
Acular PF®										2000000	08880698	
Acuvail®	4 6%	3.7%	3.7%	2.8%	2.5%	1.4%	1.3%	1.3%	1.3%	1.1%	1.1%	1.19
Ketorolac Trometh	4 6%	6.0%	5.9%	5 4%	4.8%	4.9%	5.1%	4.5%	4,3%	4.7%	4.8%	4 79
Nepafenac												
Nevanac®	37 6%	40.5%	42 1%	39.3%	40.3%	41.5%	44.8%	46 6%	46.1%	43.1%	37.5%	31.0%
Ilevro®	F-10078	- meneral	CAR 1 2.4	Sec. 195.40	TO SEE	7.00-000		756,020	1.3%	3.5%	12.5%	20.0%
Total	100.0%	100.0%	100.0%	100 0%	100.0%	100.0%	100 0%	100.0%	100.0%	100.0%	100.0%	100.09
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%	31.49
		201				2015						
	QI	Q2	Q3	Q4	Q1	2015 Q2	Q3	2013 Q2 - 2015 Q3				
Bromfenac Sodium	-					7-	- 3-	2010 62				
Xibrem®												
Bromday®	0.0%	0.0%	0.0%				0.0%	3 8%				
Prolensa®	32 0%	33 4%	32.2%	31.2%	32.9%	31.3%	32 1%	28 8%				
Bromfenac Sodium	10.0%	7.6%	6.2%	6 3%	5.0%	4.5%	3.9%	6 7%				
Diclofenac Sodium												
Voltaren®							9					
Diclofenac Sodium	0.8%	0.8%	0.7%	0.7%	0.7%	0.6%	0.8%	0.8%				
The state of the s	100000	1100 m, 642		10.17.0			Service .	5.5.6				
Flurbiprofen Sodium	0.064	0.000	0.007	0.002	0.007	0.007	2000	N 445				
Ocufen® Flurbiprofen Sodium	0.0%	0.5%	0.5%	0.0%	0.0%	0.0%	0.0%	0.0%				
	0.6%	0.3%	U 3%	0.3%	0.5%	U.5%	0.3%	0.6%				
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%				
Acular PF®	1/2/12/24	7672227	remant-	079470								
Acuvail®	1.0%	0.8%	0.7%	0.7%	0.6%	0.5%	0.5%	0.8%				
	5 5%	6 0%	6.6%	7.0%	8.1%	8.1%	7.6%	6.4%				
Ketorolac Trometh												
	-1-74											
	24 1%	20 3%	18.8%	16.7%	14.4%	13 2%	11 9%	22 2%				
Nepafenac			18.8% 33.4%	16.7% 36.3%	14 4% 37.0%	13 2% 40 5%	11 9% 42 0%	22.2% 29.0%				
Nepafenac Nevanac®	24 1%	20.3%										
Nepafenac Nevanac® Hevro®	24 1% 24 6%	20.3% 29.6%	33 4%	36 3%	37.0%	40 5%	42.0%	29.0%				

Notes & Sources From IMS Data

APPENDIX 5

#### OPHTHALMIC NSAIDS TOTAL PRESCRIPTIONS DISPENSED UNITED STATES

		2005			2006				200	7	
	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Ql	Q2	Q3	Q4
	600	13,740	23,501	31,592	41,103	50,459	63,451	72,685	90,594	101,857	108,760
	75,36X 55	69,013 35	55,516 32	44,082 33	44,293 37	42,390 36	40,33X 35	38,338 52	36,659 59	34,013 42	30,870 123
	618 12,838	514 12,875	428 12,529	351 12,112	288 12,152	250 12,506	220 12,621	237 14,097	197 15,231	160 15,766	143 15,963
	196,666 146,012 2,158	169,940 156,442 1,937	140,995 141,129 1,593	124,312 133,694 1,322	143,440 152,922 1,203	124,279 164,849 1,079	109,932 174,756 1,097	107,601 189,568 1,138	120,281 209,493 1,241	105,270 212,394 1,120	95,905 212,399 1,021
		2,425	63,620	89,154	107,574	109,839	113,173	113,153	125.062	133.510	143.825
	434.515	426,921	439,343	436,652	503,012	505.687	515.623	536,869	598,817	604,132	609,009
	418,901	411,595	424,793	422,867	489,369	491,852	501,685	521,397	582,148	587,086	591,882
	600	13,740	23,501	31,592	41,103	50,459	63,451	72,685	90,594	101,857	108,760
	200	· ·			200	0			701	0	
QI	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4
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
14,916 13,359	8,560 21,427	4,996 23,514	3,570 25,063	2,568 25,551	1,993 30,371	1,399	749 33.318	506 33.191	1,073 37,335	556 41,865	497 45.575
132 15,979	152 17.040	117 17-273	102 17.632	95 17-162	92 18.875	60 19.727	69 19,923	76 18,859	87 20,403	75 21.980	76 22,378
01.05k	104 202	91.797	84 386	80 469	90,919	81,974	47,775	13,122	10,827	6,558	4,636
205,743 1,060	220,330 1.222	221,588 1,148	224,808 928	220,469 931	236,737 983	213,690 716 2,891	105,795 238 76,315 61,432	17,001 97 67,981 140,219	12,558 4x 44,813 17X,082	8,263 10 39,983 192,360	5,584 11 32,939 207,585
205,743	220,330	221,588	224,808	220,469	236,737	213,698	238 76,315	97 67,981	48 44,813	39,983	11 32,939
205,743 1,060	220,330 1,222	221,588 1,148	224,808 928	220,469 931	236,737 983	213,696 716 2,891	238 76,315 61,432	97 67,981 140,219	44,813 178,082	18 39,983 192,360	32,959 207,585
205,743 1,060 138,882	220,330 1,222 155,622	22 1,588 1,148 160,120	224,808 928 148,997	220,469 931 149,932	236,737 983 169,989	213,690 716 2,891 172,697	238 76,315 61,432 175,315	97 67,981 140,219 171,652	44,813 178,082 196,898	39,983 192,360 195,918	32,939 207,585 200,493
	112,864 14,916 13,359 132 15,979	75,368 55 618 12,838 196,666 146,012 2,158 434,515 418,901 600 200 Q1 Q2 112,864 123,782 14,916 13,359 14,916 13,359 17,1411	75,568 69,013 55 35 618 514 12,838 12,875 196,666 169,940 146,012 156,442 2.158 1,937  2,425 434,515 426,921 418,901 411,595 600 13,740 2008 Q1 Q2 Q3 112,864 123,782 127,727  14,916 8,560 4,996 13,359 21,427 23,514 132 152 117 15,979 17,1441 17,273	Q2         Q3         Q4           600         13,740         23,501           75,568         69,013         55,516           55         35         32           618         514         428           12,838         12,875         12,529           196,666         169,940         140,995           146,012         156,442         141,129           2,158         1,937         1,593           2,425         63,620           434,515         426,921         439,343           418,901         411,595         424,793           600         13,740         23,501           2008         Q         Q           Q1         Q2         Q3         Q4           112,864         123,782         127,727         137,019           14,916         8,560         4,996         3,570           13,339         21,427         23,514         25,063           15,979         17,441         17,273         17,632	Q2         Q3         Q4         Q1           600         13,749         23,501         31,592           75,568         69,013         55,516         44,082           55         35         32         33           618         514         428         351           12,858         12,875         12,529         12,112           196,666         169,940         140,995         124,312           146,012         156,442         141,129         133,694           2,158         1,937         1,593         1,322           2,425         63,620         89,154           434,515         426,921         439,343         436,632           418,901         411,595         424,793         422,867           606         13,740         23,501         31,592           208         Q1         Q2         Q3         Q4         Q1           112,864         123,782         127,727         137,019         144,225           14,916         8,560         4,996         3,570         2,568           13,359         21,427         23,514         25,063         25,551           132         152	Q2         Q3         Q4         Q1         Q2           600         13,740         23,501         31,592         41,103           75,368         69,013         55,516         44,082         44,293           55         35         32         33         37           618         514         428         351         288           12,838         12,875         12,529         12,112         12,152           196,666         169,940         140,995         124,312         143,440           146,012         136,442         141,129         133,694         152,922           2.158         1,937         1,593         1,322         1,203           2.425         63,620         89,154         107,574           434,515         426,921         439,343         436,652         503,012           418,901         411,595         424,793         422,867         489,369           600         13,740         23,501         31,392         41,103           200         21         Q2         Q3         Q4         Q1         Q2           112,864         123,782         127,727         137,019         144,225         1	Q2         Q3         Q4         Q1         Q2         Q3           600         13,740         23,501         31,592         41,103         50,459           75,568         69,013         55,516         44,082         44,293         42,390           555         35         32         33         37         36           618         514         428         351         288         250           128,38         12,875         12,529         12,112         12,152         12,506           196,666         169,940         140,995         124,312         143,440         124,279           146,012         156,442         141,129         133,694         152,922         164,849           2,158         1,937         1,593         1,322         1,203         1,079           2,425         63,620         89,154         107,574         109,839           418,901         411,595         424,793         422,867         480,369         491,852           600         13,740         23,501         31,592         41,103         50,459           2008         201         Q2         Q3         Q4         Q1         Q2         Q3 <td>Q2         Q3         Q4         Q1         Q2         Q3         Q4           600         13,740         23,501         31,592         41,103         50,459         63,451           75,568         69,013         55,516         44,082         44,293         42,390         40,338           55         35         32         33         37         36         35           618         514         428         351         288         250         220           12,838         12,875         12,529         12,112         12,152         12,506         12,621           196,666         169,940         140,995         124,312         143,440         124,279         109,932           146,012         156,442         141,129         133,694         152,922         164,849         174,756           2,158         1,937         1,593         1,322         1,203         1,079         1,097           2,425         63,620         89,154         107,574         109,839         113,173           434,515         426,921         439,343         436,652         503,012         505,687         515,623           418,901         411,595         424,</td> <td>Q2         Q3         Q4         Q1         Q2         Q3         Q4         Q1           600         13,740         23,501         31,592         41,103         50,459         63,451         72,685           75,568         69,013         55,516         44,082         44,293         42,390         40,338         38,338           55         35         32         33         37         36         35         52           618         514         428         351         288         250         220         237           12,838         12,875         12,529         12,112         12,152         12,506         12,621         14,097           196,666         169,940         140,995         124,312         143,440         124,279         109,932         107,601           146,012         156,442         141,129         133,694         152,922         164,849         174,756         189,563           2.158         1,937         1,593         1,322         1,203         1,079         1,097         1,138           418,901         411,595         424,793         422,867         480,369         491,852         501,685         521,397</td> <td>  Q2</td> <td>  Q2</td>	Q2         Q3         Q4         Q1         Q2         Q3         Q4           600         13,740         23,501         31,592         41,103         50,459         63,451           75,568         69,013         55,516         44,082         44,293         42,390         40,338           55         35         32         33         37         36         35           618         514         428         351         288         250         220           12,838         12,875         12,529         12,112         12,152         12,506         12,621           196,666         169,940         140,995         124,312         143,440         124,279         109,932           146,012         156,442         141,129         133,694         152,922         164,849         174,756           2,158         1,937         1,593         1,322         1,203         1,079         1,097           2,425         63,620         89,154         107,574         109,839         113,173           434,515         426,921         439,343         436,652         503,012         505,687         515,623           418,901         411,595         424,	Q2         Q3         Q4         Q1         Q2         Q3         Q4         Q1           600         13,740         23,501         31,592         41,103         50,459         63,451         72,685           75,568         69,013         55,516         44,082         44,293         42,390         40,338         38,338           55         35         32         33         37         36         35         52           618         514         428         351         288         250         220         237           12,838         12,875         12,529         12,112         12,152         12,506         12,621         14,097           196,666         169,940         140,995         124,312         143,440         124,279         109,932         107,601           146,012         156,442         141,129         133,694         152,922         164,849         174,756         189,563           2.158         1,937         1,593         1,322         1,203         1,079         1,097         1,138           418,901         411,595         424,793         422,867         480,369         491,852         501,685         521,397	Q2	Q2

APPENDIX 5

#### OPHTHALMIC NSAIDS TOTAL PRESCRIPTIONS DISPENSED UNITED STATES

		201				201				201		255
	QI	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4
Bromfenae Sodium	20.77 4.21 0	20.000	6.200	0.700	1.475	4.50	107	100		ym.	200	
Xibrom® Bromday®	95,438 92,043	27,807 141,205	6,298	3,533	1,447	450 172,731	167.038	123 162,501	75 157,013	42	41	14,28
Prolensati	92,043	141,203	190,056	187,700	181,990	172,731	10 (4128	102.501	157,015	20.034	55,783 95,546	146,47
Bromfenae Sodium		9,825	27,724	32,276	34,430	37,983	36,507	32,559	35,178	37,983	35,530	38,64
		-3	36-5-37-58-55	ar my min .		200	, september 1	- conference	10	2,7,00		2000
Diclofenae Sodium Voltaren®	411	321	331	314	143	60	19	12	15	- 2	11	
Diclofenac Sodium	48,498	60.656	63,533	63,204	67,124	70,027	71,211	72.651	71,006	78,614	86.741	81,31:
	45,476	60.656	03,333	03,294	07,124	70,027	21-211	72.051	71,000	78,614	80,744	81,313
Flurbiprofen Sodium		1000	7996	5500	2.62		2.600	Contract Con	1.600	27470	140.47	-
Oculen's	80	43	45	44	26	54	38	36	29	29	36	25
Flurbiprofen Sodium	22,379	25,679	26,057	26,434	29,626	30,584	32,125	31,069	29,838	32,593	34,002	35,481
Keterolac Trometh												
Acular®	3,811	3,427	2,972	2,043	1,559	1,380	1,369	1,209	950	906	803	612
Acular LS®	4.228	3,993	2,898	2,432	1,979	1,573	1,405	1,183	1.055	1.053	779	1,180
Acular PF®	6	4	4	3	19001255	2	27002	6/3/26	2227	101-2010	12/14/20	55340
Acuvail®	25,757	18,579	14,161	11,788	10,321	8,152	6,687	5,873	5,204	4,508	3,799	3,568
Ketorolac Trometh	216,398	268,916	269,828	274.210	294.578	316.428	322,171	317.091	316,691	351,749	351,106	348,985
Nepalenac												
Nevanac@	183,278	190.396	187,851	198,900	211,339	223,823	249,947	259.078	235,601	225,549	191,233	157,975
Hevro®									606	18,026	65,825	112,492
Total	692,327	750,851	767,760	804,949	834,568	863,247	888,708	883,385	853.261	911,144	915,235	941,082
Total (Excluding Flurbiprofen Sodium												
products and Acular PF®)	669.862	725,125	741,654	778,468	804,916	832,607	856,545	852.280	823,394	878,522	881.197	905.569
Total Xibrom 9/Bromday 8/Prolensa®	187,481	169,012	172,356	193,301	183,443	173,181	167,229	162,624	157,088	160,128	151,370	160,788
Total Tillian Stationary Constitution	13.4	1000	11400		13.84		49.13		(3,1999)	533333		
		201			5 63	2015		2013 Q2 -				
	01											
MACHINE CONTRACTOR OF THE CONT		Q2	Q3	04	Q1	Q3	Q3	_2015 Q3				
	-					Q3	Q3	- A C. E.				
Xibrom%	18	14	26	7	5		area	181				
Xibrom® Bromday®	18 2,669	14 956	26 283	7 N2	5 31	27	12	181 214,177				
Xibrom® Bromday® Prolensa®	18 2,669 149,409	14 956 163,653	26 283 167,241	7 N2 169,388	5 31 156,919	27 166,337	13 16x,902	181 214,177 1,403,907				
Xibrom® Bromday® Prolensa® Bromfenac Sedium	18 2,669	14 956	26 283	7 N2	5 31	27	12	181 214,177				
Xibrom® Bromday® Prolensa® Bromfenac Sodium Diclofenac Sodium	18 2,669 149,409 39,783	14 956 163,653 41,903	26 283 167,241 42,887	7 N2 169,388 41,790	5 31 156,919 34,925	27 166,337 34,265	13 16×,902 32,871	181 214,177 1,403,907 380,583				
Xibrom® Bromday® Prolosa® Bromfenae Sodium Diclofenae Sodium Voltaren®	18 2,669 149,409 39,783	14 956 163,653 41,903	26 283 167,241 42,887	7 R2 169,388 41,790	5 31 156,919 34,925	27 166.337 34,265	12 16x,902 32,871	181 214,177 1,403,907 380,583				
Xibrom® Bromday® Prolonsa® Bromfenac Sodium Diclofenac Sodium Octaren® Diclofenac Sodium	18 2,669 149,409 39,783	14 956 163,653 41,903	26 283 167,241 42,887	7 N2 169,388 41,790	5 31 156,919 34,925	27 166,337 34,265	13 16×,902 32,871	181 214,177 1,403,907 380,583				
Xibrom® Bromday@ Prolensa@ Bromfenac Sodium Diclofenac Sodium Voltaren® Diclofenac Sodium Flurbiprofen Sodium	18 2,669 149,4n9 39,783 11 77,973	14 956 163,653 41,903 10 86,153	26 283 167,241 42,887 4 89,261	7 82 169,388 41,790 4 88,960	5 31 156,919 34,925 2 85,798	27 166.337 34,265 5 95,778	13 168,902 32,871 9 98,041	181 214,177 1,403,907 380,583 70 862,634				
Xibrom & Bromda, 90 Prolensa@ Bromfenac Sodium Diclofenac Sodium Voltaren / P Diclofenac Sodium Voltaren / P Ocufenac Sodium Ocufenac Sodium Ocufenac Sodium	18 2,669 149,4n9 39,783 11 77,973	14 956 163,653 41,903 10 86,153	26 283 167,241 42,887 4 89,261	7 82 169,388 41,790 4 88,960	5 31 156,919 34,925 2 85,798	27 166.337 34,265 5 95,778	12 168,902 32,871 9 98,041	181 214,177 1,403,907 380,583 70 862,634 258				
Xibrom  Bromda, 90  Prolensar  Bromfenac Sodium  Diclofenae Sodium  Voltaren/8- Diclofenac Sodium  Flurbiprofen Sodium	18 2,669 149,4n9 39,783 11 77,973	14 956 163,653 41,903 10 86,153	26 283 167,241 42,887 4 89,261	7 82 169,388 41,790 4 88,960	5 31 156,919 34,925 2 85,798	27 166.337 34,265 5 95,778	13 168,902 32,871 9 98,041	181 214,177 1,403,907 380,583 70 862,634				
Xibrom  Bromday  Prolensar  Bromfenac Sodium  Diclofenac Sodium  Voltafenac Sodium  Flarbiprofen Sodium  Ocufenix  Ocufenix	18 2,669 149,4n9 39,783 11 77,973	14 956 163,653 41,903 10 86,153	26 283 167,241 42,887 4 89,261	7 82 169,388 41,790 4 88,960	5 31 156,919 34,925 2 85,798	27 166.337 34,265 5 95,778	12 168,902 32,871 9 98,041	181 214,177 1,403,907 380,583 70 862,634 258				
Xibrom® Bromday® Prolensar® Bromfenac Sodium Diclofenac Sodium Voltaren® Diclofenac Sodium Flurbiprofen Sodium Peufepax Plurbiprofen Sodium Ketorolac Trometh Acular®	18 2,669 149,400 39,783 11 77,973 31 33,544	14 956 163,653 41,903 10 86,153 21 35,436	26 283 167,241 42,887 4 89,261 14 37,042	7 R2 169,388 41,790 4 88,960 23 36,264	5 31 156,919 34,925 2 85,798 28 35,255	27 166,337 34,265 5 95,778 28 38,578	12 168,902 32,871 9 98,041 19 38,346	181 214,177 1,403,907 380,583 70 862,634 258				
Xibrom® Bromday® Prolonsa® Bromfenae Sedium Dielofenae Sedium Veltaren® Dielofenae Sedium Flurbiprofen Sedium Coufenix Plurbiprofen Sedium Ketorolae Trometh Acular X8 Acular X8	18 2,669 149,409 39,783 11 77,973 31 33,544	14 956 163,653 41,903 10 86,153 21 35,436	26 283 167,241 42,887 4 89,261 14 37,042	7 R2 169,388 41,790 4 88,960	5 31 156,919 34,925 2 85,798 28 35,255	27 166,337 34,265 5 95,778 28 38,578 596 476	13 168,992 32,871 9 98,041 19 38,346	181 214,177 1,403,907 380,583 70 862,634 258 356,541 6,677 9,586				
Xibrom® Bromday® Prolonsa® Bromfenae Sodium Dielofenae Sodium Voltaren® Dielofenae Sodium Flurbiprofen Sodium Flurbiprofen Sodium Ocut@n≋ Flurbiprofen Sodium Kctorolac Trometh Acular LS® Acular LS® Acular LS® Acular LS®	18 2,669 149,409 39,783 11 77,973 31 33,344 636 1,823	14 956 163,653 41,903 10 86,153 21 35,436 706 1,006	26 283 167,241 42,887 4 89,261 14 37,042 621 1,311	7 R2 169,388 41,790 4 R8,960 23 36,264 682 803	3 31 156,919 34,925 2 85,798 28 35,255 572 554	27 166.337 34,265 5 95.778 28 38,578 596 476	12 168,902 32,871 9 98,041 19 38,346 523 511	181 214,177 1,403,907 380,583 70 862,634 258 356,541 6,677 9,586 4				
Xibrom® Bromday® Prolensa® Bromfenac Sodium Diclofenac Sodium Voltaren® Diclofenac Sodium Flurbiprofen Sodium Ocufen® Flurbiprofen Sodium Ocufen® Acufen®	18 2,669 149,400 39,783 11 77,973 31 33,344 636 1,823 2,749	14 956 163,653 41,903 10 86,153 21 35,436 706 1,096 2,488	26 283 167.241 42,887 4 89,261 14 37,042 621 1,311 2,287	7 82 169,388 41,790 4 88,960 23 36,264 682 803 2,170	3 31 156,919 34,925 2 85,798 28 35,255 572 554 1,890	27 166,337 34,265 5 95,778 28 38,378 596 476 1 1,671	13 168,902 32,871 9 98,041 19 38,346 523 511	181 214,177 1,403,907 380,583 70 862,634 258, 356,541 6,677 9,586 4 26,669				
Xibromi® Bromdan@ Prolonsac Sodium Diclofenac Sodium Voltaren# Diclofenac Sodium Voltaren# Diclofenac Sodium Flurbiprofen Sodium Ocufenix Flurbiprofen Sodium Ketorolac Trometh Acular # Acular # Acular P## Acus Acus Trometh Ketorolac Trometh	18 2,669 149,409 39,783 11 77,973 31 33,344 636 1,823	14 956 163,653 41,903 10 86,153 21 35,436 706 1,006	26 283 167,241 42,887 4 89,261 14 37,042 621 1,311	7 R2 169,388 41,790 4 R8,960 23 36,264 682 803	3 31 156,919 34,925 2 85,798 28 35,255 572 554	27 166.337 34,265 5 95.778 28 38,578 596 476	12 168,902 32,871 9 98,041 19 38,346 523 511	181 214,177 1,403,907 380,583 70 862,634 258 356,541 6,677 9,586 4				
Bromday #Prolonsa** Prolonsa** Bromfenae Sedium Dielofenae Sedium Veltaren** Dielofenae Sedium Flurbiprofen Sedium Flurbiprofen Sedium Flurbiprofen Sedium Ketorolae Trometh Acular LS:* Acular LS:* Acular PP-* Acusail**  Ketorolae Trometh Nepafenae	18 2,669 149,400 39,783 11 77,973 34 33,544 656 1,823 2,749 332,870	14 956 163,653 41,903 10 86,153 21 35,436 706 1,096 2,488 378,926	26 283 167,241 42,887 4 89,261 14 37,042 621 1,311 2,287 385,938	7 R2 169,388 41,790 4 88,960 23 36,264 682 803 2,170 378,108	3 31 156,919 34,925 2 85,798 28 35,255 572 554 1,890	27 166,337 34,265 5 95,778 28 38,378 596 476 1 1,671	13 168,902 32,871 9 98,041 19 38,346 523 511	181 214,177 1,403,907 380,583 70 862,634 258, 356,541 6,677 9,586 4 26,669				
Xibrom® Bromday® Prolonsa® Bromfenac Sodium Diclofenac Sodium Veltaren® Diclofenac Sodium Flurbiprofen Sodium Ocufena: Flurbiprofen Sodium Acutar® Ac	18 2,669 149,409 39,783 11 77,973 34 33,344 656 1,823 2,749 332,870 123,014	14 956 163,653 41,903 10 86,153 21 35,436 706 1,096 2,488 378,926	26 283 167,241 42,887 4 89,261 14 37,042 621 1,311 2,287 385,938 92,900	7 82 169,388 41,790 4 88,960 23 36,264 682 803 2,170 378,108 79,197	5 31 156,919 34,925 2 85,798 28 35,255 572 554 1,890 360,990 62,714	27 166.337 34.265 5 95.778 28 38.578 596 476 476 476 476 476 476 476 476 476 47	12 168,902 32,871 9 98,041 19 38,346 523 511 1,539 407,274	181 214,177 1,403,907 380,583 70 862,634 258, 356,541 6,677 9,586 4 26,669 3,703,200				
Xibrom® Bromday® Prolensa® Bromfenae Sedium Dielofenae Sedium Velatren® Dielofenae Sedium Flarbiprofen Sedium Flarbiprofen Sedium Flarbiprofen Sedium Ketorolae Trometh Acular 15.9% Acula	18 2,669 149,400 39,783 11 77,973 34 33,544 656 1,823 2,749 332,870	14 956 163,653 41,903 10 86,153 21 35,436 706 1,096 2,488 378,926	26 283 167,241 42,887 4 89,261 14 37,042 621 1,311 2,287 385,938	7 R2 169,388 41,790 4 88,960 23 36,264 682 803 2,170 378,108	\$ 31 156,919 34,925 2 85,798 28 35,255 572 554 1,890 360,990	27 166.337 34,265 95,778 28 38,578 596 476 1 1,671 409,254	12 168,902 32,871 9 98,041 19 38,346 523 511 1,539 407,274	181 214,177 1,403,907 380,583 70 862,634 258, 356,541 6,677 9,586 4 26,669 3,705,200				
Xibrom® Bromfe, 100 Bromfe, 1	18 2,669 149,409 39,783 11 77,973 34 33,344 656 1,823 2,749 332,870 123,014	14 956 163,653 41,903 10 86,153 21 35,436 706 1,096 2,488 378,926	26 283 167,241 42,887 4 89,261 14 37,042 621 1,311 2,287 385,938 92,900	7 82 169,388 41,790 4 88,960 23 36,264 682 803 2,170 378,108 79,197	5 31 156,919 34,925 2 85,798 28 35,255 572 554 1,890 360,990 62,714	27 166.337 34.265 5 95.778 28 38.578 596 476 476 476 476 476 476 476 476 476 47	12 168,902 32,871 9 98,041 19 38,346 523 511 1,539 407,274	181 214,177 1,403,907 380,583 70 862,634 258, 356,541 6,677 9,586 4 26,669 3,703,200				
Xibrom® Bromfenac 90 Bromfenac Sodium Diclofenac Sodium Veltaren® Diclofenac Sodium Veltaren® Diclofenac Sodium Veltaren® Diclofenac Sodium Coulenax Flurbiprofen Sodium Coulenax Flurbiprofen Sodium Ketorolac Trometh Acular® Acular P® Acular P® Ketorolac Trometh Nepafenac Nevanac® Ilevre® Total	18 2,669 149,409 39,783 11 77,973 31 33,544 636 1,823 2,749 332,870 123,914 128,979	14 956 163,653 41,903 10 86,153 21 35,436 706 1,096 2,488 378,926 108,198 163,527	26 283 167,241 42,887 4 89,261 14 37,042 621 1,311 2,287 385,938 92,900 181,744	7 82 169,388 41,790 4 88,960 23 36,264 682 803 2,170 378,108 79,197 191,610	5 31 156,919 34,925 2 85,798 28 35,255 572 554 1,890 360,990 62,714 179,481	27 166.337 34,265 5 95,778 28 38,578 596 476 476 479,254 54,424 195,995	12 168,902 32,871 9 98,041 19 38,346 523 511 1,539 407,274 47,835 200,985	181 214,177 1,403,907 380,583 70 862,634 25% 356,541 6,677 9,586 4 26,669 3,705,200 1,143,059 1,438,655				
Xibrom® Bromdag® Prolonag® Bromfenae Sedium Dielofenae Sedium Velatren® Dielofenae Sedium Flurbiprofen Sedium Coufenat Flurbiprofen Sedium Ketorolae Trometh Acular IS® Acular IS® Acular PF® Acus ail® Ketorolae Trometh Nepafenae Nevanac® Leterow® Total Total (Excluding Flurbiprofen Sedium	18 2,669 149,409 39,783 11 77,973 31 33,544 636 1,823 2,749 332,870 123,914 128,979	14 956 163,653 41,903 10 86,153 21 35,436 706 1,096 2,488 378,926 108,198 163,527	26 283 167,241 42,887 4 89,261 14 37,042 621 1,311 2,287 385,938 92,900 181,744	7 82 169,388 41,790 4 88,960 23 36,264 682 803 2,170 378,108 79,197 191,610	5 31 156,919 34,925 2 85,798 28 35,255 572 554 1,890 360,990 62,714 179,481	27 166.337 34,265 5 95,778 28 38,578 596 476 476 479,254 54,424 195,995	12 168,902 32,871 9 98,041 19 38,346 523 511 1,539 407,274 47,835 200,985	181 214,177 1,403,907 380,583 70 862,634 25% 356,541 6,677 9,586 4 26,669 3,705,200 1,143,059 1,438,655				
Xibrom® Bromday® Prolonsa® Bromfenac Sodium Diclofenac Sodium Veltaren® Diclofenac Sodium Flurbiprofen Sodium Ocufena: Flurbiprofen Sodium Acutar® Ac	18 2,669 149,400 39,783 11 77,973 31 33,544 636 1,823 2,749 332,870 123,014 128,979 893,520	14 956 163,653 41,903 10 86,153 21 55,436 706 1,096 2,488 378,926 108,198 163,527 983,687	26 283 167,241 42,887 4 89,261 14 37,042 621 1,311 2,287 385,938 92,900 181,744	7 82 169,388 41,790 41 88,960 23 36,264 682 803 2,170 378,108 79,197 191,610 989,088	\$ 31 156,919 34,925 2 85,798 28 35,255 572 554 1,890 360,990 62,714 179,481	27 166.337 34.265 5 95.778 28 38,578 596 476 1 1,671 409,254 54,424 195,995	12 168,902 32,871 9 98,041 19 38,346 523 511 1,539 407,274 47,855 200,985	181 214,177 1,403,907 380,583 70 862,634 258, 356,541 6,677 9,586 4 26,669 3,705,200 1,143,059 1,438,655				

Notes & Sources: From IMS Data

#### APPENDIX 6

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

			2005			2006				2007		
	) TE	O2	O3	04	01	O2	O3	04	01	02	03	04
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%
Ketorolac Trometh Acular® Acular LS® Acuvail® Ketorolac Trometh		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%
Nepafenac Nevanac® Ilevro®			0.6%	15.0%	21.1%	22 0%	22.3%	22.6%	21.7%	21,5%	22,7%	24,3%
Total	e :=	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	2			2009	)			2010		
	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	QI	Q2	Q3	Q4
Brontenac Sodium Xibront® Brontday® Prolensa® Bronfenac 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%
Dictofenac Sodium Voltaren® Dictofenac Sodium	2.6% 2.3%	1.4%	0.8% 3.7%	0.6% 4.0%	0.4%	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%
Acular LS® Acuvail®							31.9%	16.0% 11.5%	2.8%	1.9% 6.8%	1.2% 5.9%	0.8%
Acular LS® Acuvail® Ketorolac Trometh Nepafenac Nevanac®	35.7%	34.8%	35.2%	36.0%	35.4%	34.5%	31.9% 0.4%	16.0% 11.5% 9.3%	2.8% 11.3% 23.3%	1.9% 6.8% 27.0%	1 2% 5.9% 28.3%	0.8% 4.7% 29.6%

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

		2011				2012				2013		
	Q1	Q2	Q3	Q4	QI	Q2	Q3	Q4	01	Q2	Q3	Q4
Bromfenac Sodium												
Xibron®	14.2%	3.8%	0.8%	0.5%	0.2%	0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Bromday®	13.7%	19.5%	22.4%	24.4%	22.6%	20.7%	19.5%	19,1%	19.1%	15.9%	6.3%	1.6%
Prolensa®										2,3%	10,8%	16,2%
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%
Acuvail®	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%
	32.370	27-170	201470	32.270	20.070	20.070	27.070	311270	56.576	40.070	22.070	-03
Nepatenac		25.257	25.50	25.505		0.000000	20.204	20.407	20.404	22.004	21.20	100 101
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%
llevro®									0.1%	2,1%	7.5%	12.4%
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		WAY		2015		2013 Q2 -				
	Q1	Q2	Q3	Q4	Q1	Q2	Q3	2015 Q3				
Bromfenac Sodium												
Xibiom®	0.0%	0.0%	0.0%	0.0%	0.0%			0.0%				
Bromday®	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%				
Broinfenac Sodium	4.6%	4,4%	4.4%	4.4%	4.0%	3.6%	3.4%	4.1%				
Diclofenac Sodium												
Voltaien®	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%				
Acular LS®	0.2%	0.1%	0.1%	0.1%	0.1%	0.1%	0.1%	0.1%				
Acuvail®	0.3%	0.3%	0.1%	0.1%	0.1%	0.2%	0.1%	0.3%				
Ketorolac Trometh	38.7%	40.0%	40.0%	39.7%	40.8%	42.7%	42.5%	40.3%				
		7355	78.575	-57-07-18	14.44	3000	7-2-70	10.070				
Nepafenac Nevanac®	14.3%	11.4%	9.6%	8.3%	7.1%	5.7%	5.0%	12.4%				
Nevanac@ Ilevio®	14.3%	17.3%	18.8%	20.1%	20.3%	20.4%	21.0%	15.7%				
Total	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%				
Total Xibrom@/Bromday@/Prolensa@	17.7%	17.4%	17.4%	17.8%	17.8%	17.4%	17.6%	17.6%				

Notes & Sources: From IMS Data.

#### OPHTHALMIC NSAIDS SHARE OF TOTAL PRESCRIPTIONS DISPENSED UNITED STATES

	-1		2005			2006	)			2007	7	
	1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4
Bromfenac Sodium Xibrom® Bromday® Prolensa® Bromfenac Sodium		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®		17.4%	16.2%	12.6%	10.1%	8.8%	8.4%	7.8%	7.1%	6.1%	5.6%	5.1%
Diclofenac Sodium		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Flurbiprofen Sodium												
Ocufen®		0.1%	0.1%	0.1%	0.1%	0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Flurbiprofen Sodium		3.0%	3.0%	2.9%	2 8%	2.4%	25%	2.4%	2.6%	2.5%	2 6%	2.6%
Ketorolac Trometh												
Acular®		45 3%	39.8%	32.1%	28 5%	28 5%	24 6%	21 3%	20 0%	20 1%	17.4%	15 7%
Acular LS®		33 6%	36.6%	32.1%	30 6%	30.4%	32.6%	33 9%	35.3%	35.0%	35 2%	34.9%
Acurar PF® Acuvail®		0.5%	0,5%	0.4%	0.3%	0.2%	0.2%	0.2%	0.2%	0.2%	0.2%	0.2%
Ketorolac Trometh												
Nepafenac												
Nevanac®			0.6%	14.5%	20.4%	21.4%	21.7%	21.9%	21 1%	20.9%	22 1%	23.6%
Hevro®												
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 9%
		2009	8			2009	)			2010		
	QI	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4
Bromfenac Sodium Xibrom® Bromday® Prolensa®	19.0%	19 0%	19 7%	21.3%	22 5%	22.2%	23 8%	23.8%	25.4%	26 2%	27 6%	26 9% 1 2%
Bromfenac Sodium												
	2.5%	1.3%	0.8%	0.6%	0.4%	03%	0.2%	0.1%	0.1%	0.2%	0 1%	0.1%
Diclofenac Sodium	2.5% 2.2%	1 3%	0 8% 3.6%	0.6% 3.9%	0.4% 4.0%	0 3% 4 3%	0.2% 4.7%	0.1%	0 1% 5 3%	0.2% 5.5%	0  % 6.0%	0.1% 6.3%
Diclofenac Sodium Voltaren® Diclofenac Sodium												
Dictofense Sodium Voltaren® Dictofense Sodium Flurbiprofen Sodium Ocufen®	2.2%											
Diclofenac Sodium Voltaren® Diclofenac Sodium Flurbiprofen Sodium	2.2%	3,3%	3.6%	3.9%	4 0%	4.3%	4.7%	4.9%	5 3%	5.5%	6.0%	6.3%
Diclofenac Sodium Voltaren® Plurbiprofen Sodium Coufen® Flurbiprofen Sodium Coufen® Flurbiprofen Sodium Ketorolac Trometh	2.2% 0.0% 2.7%	3.3% 0.0% 2.6%	3 6% 0.0% 2.7%	3.9% 0.0% 2.7%	4 0% 0 0% 2 7%	4 3% 0 0% 2 7%	4.7% 0.0% 2.9%	4.9% 0.0% 2.9%	5 3% 0 0% 3 0%	5.5% 0.0% 3.0%	6.0% 0.0% 3.1%	63%
Diclofense Sodium Voltaren® Diclofense Sodium Flurbiprofen Sodium Ocufen® Flurbiprofen Sodium Ketorolae Trometh Acular®	2.2% 0.0% 2.7%	3.3% 0.0% 2.6%	3.6% 0.0% 2.7%	3.9% 0.0% 2.7%	4 0% 0 0% 2 7%	4 3% 0 0% 2 7%	47% 0.0% 2.9%	4.9% 0.0% 2.9% 7.0%	5 3% 0 0% 3 0% 2 1%	5.5% 0.0% 3.0%	0.0% 0.0% 3.1%	63% 00% 31% 86%
Diclofenac Sodium Voltaren® Diclofenac Sodium Flurbiprofen Sodium Ocufen® Flurbiprofen Sodium Ketorolac Trometh Acular® Acular LS®	2.2% 0.0% 2.7% 15.3% 34.6%	3.3% 0.0% 2.6% 16.0% 33.8%	3 6% 0 0% 2 7% 14.2% 34 2%	3.9% 0.0% 2.7% 13.1% 35.0%	4 0% 0 0% 2 7% 12.5% 34 4%	4 3% 0 0% 2 7% 12.9% 33.5%	47% 00% 29% 119% 310%	4.9% 0.0% 2.9% 7.0% 15.5%	5 3% 0 0% 3 0% 2 1% 2 7%	5 5% 0 0% 3 0% 1 6% 1 8%	6.0% 0.0% 3.1% 0.9% 1.2%	63% 00% 31% 86% 08%
Diclofense Sodium Voltaren® Diclofense Sodium Flurbiprofen Sodium Ocufen® Flurbiprofen Sodium Ketorolac Trometh Acular® Acular LS® Acular PP®	2.2% 0.0% 2.7%	3.3% 0.0% 2.6%	3.6% 0.0% 2.7%	3.9% 0.0% 2.7%	4 0% 0 0% 2 7%	4 3% 0 0% 2 7%	4 7% 0 0% 2 9% 11 9% 31 0% 0.1%	4.9% 0.0% 2.9% 7.0% 15.5% 0.0%	5 3% 0 0% 3 0% 2 1% 2 7% 0 0%	5 5% 0 0% 3 0% 1 6% 1 8% 0 0%	0.0% 0.0% 3.1% 0.9% 1.2% 0.0%	63% 00% 31% 0.6% 0.8% 0.0%
Dictofense Sodium Voltaren® Dictofense Sodium Flurbiprofen Sodium Ocufen® Flurbiprofen Sodium Ketorolae Trometh Acular® Acular®	2.2% 0.0% 2.7% 15.3% 34.6%	3.3% 0.0% 2.6% 16.0% 33.8%	3 6% 0 0% 2 7% 14.2% 34 2%	3.9% 0.0% 2.7% 13.1% 35.0%	4 0% 0 0% 2 7% 12.5% 34 4%	4 3% 0 0% 2 7% 12.9% 33.5%	47% 00% 29% 119% 310%	4.9% 0.0% 2.9% 7.0% 15.5%	5 3% 0 0% 3 0% 2 1% 2 7%	5 5% 0 0% 3 0% 1 6% 1 8%	6.0% 0.0% 3.1% 0.9% 1.2%	6 3% 0 0% 3 1% 0 6% 0 8% 0 0% 4 6%
Diclofenac Sodium Voltaren® Diclofenac Sodium Flurbiprofen Sodium Ocufen® Flurbiprofen Sodium Ketorolac Trometh Acular® Acular LS® Acular PF® Acuvarl® Ketorolac Trometh	2.2% 0.0% 2.7% 15.3% 34.6%	3.3% 0.0% 2.6% 16.0% 33.8%	3 6% 0 0% 2 7% 14.2% 34 2%	3.9% 0.0% 2.7% 13.1% 35.0%	4 0% 0 0% 2 7% 12.5% 34 4%	4 3% 0 0% 2 7% 12.9% 33.5%	4 7% 0 0% 2 9% 11 9% 31 0% 0.1%	4.9% 0.0% 2.9% 7.0% 15.5% 0.0% 11.2%	5 3% 0 0% 3 0% 2 1% 2 7% 0 0% 11 0%	5.5% 0.0% 3.0% 1.6% 1.8% 0.0% 6.6%	0.0% 0.0% 3.1% 0.9% 1.2% 0.0% 5.7%	63% 00% 31% 86% 08%
Diclofenac Sodium  Voltaren® Diclofenac Sodium  Flurbiprofen Sodium  Ocufen® Flurbiprofen Sodium  Ketorolac Trometh Acular LS® Acular LS® Acular PP® Acuvail®  Ketorolac Trometh  Nepafenac Nepafenac Nevanac® Hevro®	2.2% 0.0% 2.7% 15.3% 34.6% 0.2%	3.3% 0.0% 2.6% 16.0% 33.8% 0.2%	3.6% 0.0% 2.7% 14.2% 34.2% 0.2%	3.9% 0.0% 2.7% 13.1% 35.0% 0.1%	4 0% 0 0% 2 7% 12.5% 34 4% 0 1%	4 3% 0 0% 2 7% 12.9% 33 5% 0.1%	4.7% 0.0% 2.9% 11.9% 31.0% 0.1% 0.4%	4,9% 0,0% 2,9% 7,0% 15,5% 0,0% 11,2% 9,0% 25,7%	5 3% 0 0% 3 0% 2 1% 2 7% 0 0% 11 0% 22 6% 27 7%	5.5% 0.0% 3.0% 1.6% 1.8% 0.0% 6.6% 26.2%	0.0% 0.0% 0.0% 0.1% 0.9% 1.2% 0.0% 5.7% 27.4%	6 3% 0 0% 3 1% 0 6% 0 8% 0 0% 4 6% 28 7% 27 7%
Diclofenac Sodium Voltaren® Diclofenac Sodium Flurbiprofen Sodium Ocufen® Flurbiprofen Sodium Ketorolac Trometh Acular LS® Acular LS® Acular PF® Acuvarl® Ketorolac Trometh Negafenac Neyanac®	2.2% 0.0% 2.7% 15.3% 34.6% 0.2%	3.3% 0.0% 2.6% 16.0% 33.8% 0.2%	3.6% 0.0% 2.7% 14.2% 34.2% 0.2%	3.9% 0.0% 2.7% 13.1% 35.0% 0.1%	4 0% 0 0% 2 7% 12.5% 34.4% 0 1%	4 3% 0 0% 2 7% 12.9% 33 5% 0.1%	4.7% 0.0% 2.9% 11.9% 31.0% 0.1% 0.4%	4,9% 0.0% 2.9% 7,0% 15.5% 0.0% 11.2% 9.0%	5 3% 0 0% 3 0% 2 1% 2 7% 0 0% 11.0% 22 6%	5.5% 0.0% 3.0% 1.6% 1.8% 0.0% 6.6% 26.2%	0.0% 0.0% 0.9% 0.9% 1.2% 0.0% 5.7% 27.4%	6 3% 0 0% 3 1% 0 6% 0 8% 0 0% 4 6% 28 7%

APPENDIX 7

# OPHTHALMIC NSAIDS SHARE OF TOTAL PRESCRIPTIONS DISPENSED UNITED STATES

		201				201	2			2013	3	
	QI	Q2	Q3	Q4	Q1	Q2	Q3	Q4	QI	Q2	Q3	Q4
Bromfenac Sodium	1999/2003	547583										
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%	1.59
Prolensa® Bromfenac Sodium		1 3%	3.6%	4:09/	4.397	- W-9407-	24.147	21/70/	20621022	2.2%	10 4%	15.6%
		1.3%	3.0%	4.0%	4.1%	4.4%	4.1%	3.7%	4 1%	4.2%	3 9%	4.1%
Dictofenac Sodium	796.998.20	0.001	000000000	100000000000000000000000000000000000000	W-1494-1	1907		2010000111	TWO WAY	0.000	19000000000	F 100
Voltaren® Diclofenac Sodium	0.0%	0.0%	0.0%	0.0%	0,0% 3.5%	0.0% 3.5%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
	3 270	3.470	3 476	3.370	3 276	3.376	3.6%	3.3%	3 5%	3 6%	3 7%	3 8%
Flurbiprofen Sodium Ocufen®	0.717	0.5%	0.367	0.227	0.207	0.207	0000000	0.107	100000000	0.10/	THE CHARGE	0.10
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%
	0.076	0.376	0.476	0.370	0.270	U-27e	0:276	0.1%	0.176	0:176	0.1%	0:17
Ketorolac Trometh Acular®	(1902/920	0.002	0.4%	0.757	0.007	0.307	0.307	WI KNOW	W. 1957	0.107	0.100	W. 100
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%	U 4 70	0.2%	U.476	0.176	0 170	U. F.76	D 179	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%	0.49
Ketorolac Trometh	313%	35.8%	35.1%	34.1%	35.3%	36.7%	36.3%	35.9%	37 1%	38 6%	38 4%	37.19
Vepafenac												
Nevanac®	26.5%	25 4%	24.5%	24.7%	25.3%	25.9%	28.1%	29.3%	27 6%	24.8%	20.9%	16.8%
Ilevro®	22.20	775046	(725.711)Cc	200000		117750537	1 25.4	(78513)	0 1%	2.0%	7.2%	12.0%
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®	27.1%	22 5%	22.4%	24.0%	22.0%	20.1%	18.8%	18.4%	18.4%	17.6%	16 5%	17.1%
		222										
	QI	02 O2	Q3	Q4	01	2015 Q2	Q3	2013 Q2 - 2015 Q3				
Bromfenac Sodium		- Qz	- 65	<u> </u>	<u>V</u>	Q2	Q3	2013 Q3				
Xibrom®	0.0%	0.0%	0.0%	0.0%	0.0%			0.0%				
Bromday®	0.3%	0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	2.2%				
Prolensa®	16 7%	16.6%	16 7%	17.1%	17.1%	16.7%	16.9%	14.7%				
Bromfenac Sodium	4.5%	4 3%	4 3%	4.2%	3.8%	3.4%	3 3%	4.0%				
Diclofenac Sodium												
Voltaren®	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%				
Diclofenac Sodium	3.8%	3.5%	3.7%	3.7%	3 8%	3.9%	3.8%	3.7%				
Flurbiprofen Sodium												
Ocufen®	0.1%	0.1%	0.1%	0.1%	0.1%	0.1%	0.1%	0.1%				
Flurbiprofen Sodium	0.2%	0.1%	0.1%	0.1%	0.1%	0.0%	0.1%	0.1%				
Ketorolac Trometh												
Acular®	0.1%	0.1%	0.1%	0.1%	0.1%	0.1%	0.1%	0.1%				
Acular LS®	0.2%	0.1%	0.1%	0.1%	0.1%	0.0%	0.1%	0.1%				
Acular PF®	292997	200	****	12000	2022	0.0%	202725750	0.0%				
Acuvail® Ketorolac Trometh	0.3% 37.3%	0.3%	0.2%	0.2%	0.2%	0.2%	0.2%	0.3%				
	3/376	38.5%	38 5%	38.2%	39.3%	41.0%	40.9%	38.8%				
Vepafenac	17.00	11.002	0.387	0.00/	2.002	E 207	4.65*	100.000				
Nevanac® Hevro®	13.8%	11.0%	9 3% 18 1%	8.0% 19.4%	6.8% 19.5%	5.5%	4.8%	12.0%				
Fotal					15,140,000	(2) (2) (2)						
Total Xibrom@/Bromdav@/Prolensa@	100 0%	100.0%	100.0%	100.0%	17.1%	100.0%	100.0%	100.0%				

Notes & Sources: From IMS Data

APPENDIX 8

#### OPHTHALMIC NSAIDS TOTAL EXTENDED UNITS SOLD UNITED STATES

Seminana: Sodium				2005			200	6			200	7	
Marcade   18,185   29,415   140,775   140,775   120,776   225,965   274,978   297,460   359,978   316,985   406,065   406,0	A_10004-0-09804	12-	Q2		Q4	Q1			Q4	Q1			Q4
Valuerank   S66,148   470,570   344,125   321,603   335,200   312,533   303,413   247,753   247,001   226,543   22	Xibrom® Branda, ® Protensa®		38,185	89_415	140,575	180,778	204,958	225,965	274,978	297,463	359,978	386,905	406,605
Definity   12   15   15   15   15   15   15   15	Voltaren®					321,603	335,530	315,553	303,413	287,753	287,040	266,910	236.543
Acutar   Section   Acutar   Section   Sectio	Ocufen®												
No. commonies   184,571   268,002   320,007   366,174   362,316   374,373   367,724   411,511   440,326   444,227     Total   Statuming Flumbiprofen Sodium   28,008,200   3,141,765   3,056,227   2,896,891   3,273,009   3,146,771   3,192,469   3,199,315   3,561,040   3,546,227   3,481,1995     Total   Statuming Flumbiprofen Sodium   29,008,200   3,418   80,415   140,575   180,778   204,958   225,965   2,778,608   2,890,763   2,890,750   3,171,600   3,171,640   3,107,383     Total   Statuming Flumbiprofen Sodium   20,008   20,008,200   20,008,20	Acular LS R Acular LS R Acular PF X Acuvailar		811,235	895,925	796,540	754,250	864,585	920,060	1,015,305	1,044,820	1,167,835	1,208,945	1.201,395
Total (Exchaling Flumbiprofen Sodium products and Acutur FF8)   2,808,600   2,743,871   2,662,467   2,350,138   2,873,256   2,778,608   2,809,763   2,859,758   3,177,600   3,171,640   3,107,387   3,107,600   3,107,600	Nevanaew			29.571	268,002	320,097	366,174	362.316	374,373	367,72%	411,501	440.526	4x4,227
Products and Acutal PF	Total		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
Profession   Pro			2.808.60x	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
Part	Total Xibrom R/Bromday/R/Prolensa/R		38.185	N9,415	140,575	180,778	204.958	225.965	274,978	297,463	359,978	386,905	406.605
Bromfoax Sodium			201	18			200	9			201	0	
Note	20 A - 20 C	Q!	02	Q3	Q4	01	Q2	Q3	Q4	10	Q2	Q3	04
Voltarenik 136,343 88,265 53,453 38,965 32,003 28,903 14,200 8,923 7,855 7,230 5,160 4,740 Dielofenae Sodium 175,610 188,125 202,238 196,233 229,843 257,468 296,605 305,828 394,283 341,138 382,283 387,695 Flurbiprofen Sodium	Xibrom & Bromday ® Prolensa &	421,353	466,373	491,735	514,903	561,450	605,663	627,015	617,383	614,198	686,078	723,0MI	
Designate   Graph	Voltaren®												
Acular K 748,093 871,520 784,730 706,653 723,047 810,317 741,209 440,490 136,391 94,870 74,255 61,090 Acular LS% 1,119,405 1,313,165 1,224,795 1,193,295 1,325,080 1,303,370 1,166,665 522,650 91,240 66,200 58,695 53,320 Acular PF K 23,074 23,669 23,405 21,226 23,366 24,720 14,497 1,142 125 29 24 Acusalile 183,552 1,599,396 1,332,204 669,624 599,124 426,096 856,051 1,171,537 1,436,621 1,430,881 1,490,409 Nopalenae Nevanae ® 1459,639 538,146 551,238 488,769 525,090 584,883 589,470 618,030 611,646 698,742 665,694 699,630 Iller to ® 184,000	Ocufena												
Negationae Neconae 8 459,639 538,146 551,238 488,769 525,090 584,883 589,470 618,030 611,646 698,742 665,694 699,630 locyrol/8: 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 (Excluding Flutriprofen Sodium products and Acular PF®) 3,060,442 3,465,394 3,308,208 3,138,817 3,396,512 3,590,603 3,618,716 4,968,750 4,359,354 4,000,513 3,039,092 3,863,984	Acular I.S.B. Acular I.S.B. Acular PF V Acuvail®	1,119,405	1,313,165	1,224,795	1,193,295	1,325,080	1,303,370	1,166,665 14,947	522,650 1.142 1,599,396	91,240 125 1,332,204	66,200 29 669,624	58,695 24 599,124	55,320 426,096
Total (Excluding Flutbiprofen Sodium products and Acular PFX) 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	Nevanae®	459,639	538,146	551,238	488,769	525,090	584,883	589,470	- T2D-A13000F11				
products and Acular PF%) 3,060.442 3,465,394 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 X/Bromday X/Prolensa X 421,353 466,373 491,735 514,903 561,450 605,663 627,015 617,383 614,198 686,078 723,000 739,004		3,060,442	3,465,394	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/6	421,353	466,373	491,735	514,903	561,450	605,663	627,015	617,383	614,198	686,078	723.000	739,004

APPENDIX 8

#### OPHTHALMIC NSAIDS TOTAL EXTENDED UNITS SOLD UNITED STATES

		201	F			2012	2			2013		
	QT	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4
Bromfenac Sodium Xubram & Bromday ® Protensa & Bromfenac Sodium	428,398 147,747	160,843 216,546 93,938	4,230 285,828 102,410	1,213 352,521 124,930	210 33N,229 130,955	20 329,154 140,433	75 323.785 129,740	58 317,354 126,560	296,890 141,505	250,923 76,597 156,43x	93.638 243.986 136.985	2,893 325,001 159,680
Dielofenae Sodium Voltaren% Dielofenae Sodium	4,250 409,508	3,705 488,408	3,150 477,305	2,695 488.500	735 451,595	125 461,905	10 464.045	10 473.213	470,368	5/08,0015	512,893	516,188
Flurbiprofen Sodium Ocufen* Flurbiprofen Sodium	2,475 339,848	4,938 363,413	4,655 343,318	5.19x 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	1.925 379,740
Keterolae Trometh Acular K Acular LS& Acular PFX Acunar PFX Acunar W Keterolae Trometh	54,760 44,740 323,340 1,582,348	50,546 38,065 248,772 1,943,326	45,920 30,940 207,588 1,937,433	34,860 22,015 180,336 1,973,903	31,425 21,080 158,532 1,861,001	32,160 17,065 91,692 2,020,807	27,880 16,880 80,820 2,004,809	29,500 14,935 86,064 2,009,275	33,435 12,365 77,016 2,049,825	30,225 11,025 64,765 2,234,284	31,830 9,310 59,172 2,202,806	32,505 16,920 55,284 2,101,115
Nepalenac Nevanacis: Ilexroii	641.415	660,039	631.314	678,738	683,481	730,362	794.757	842,997	774,34K 11.762	740,892 32,538	614,724 111,782	504,369 177,283
Total	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	4.272.903
Total (Excluding Flurbiprofen Sodium products and Acular PF€)	3,636,506	3.904,188	3,726,11%	3,858,811	3,677.243	3,823,723	3,842,801	3,899,966	3,867,514	4,105,692	4.017.126	3 891 239
Total Xibrom®/Bromday®/Prolensa®	576,145	377,389	290,05K	353,734	338,439	329,174	323,860	317,412	296,890	327,520	337,624	327.804
		201	4			2015		2013 Q2 -				
20 720 12010	QI	Q2	Q3	Q4	01	Q2	Q3	2015 Q3				
Bromfence Sodium Xibrom® Bromday® Profess® Bromfence Sodium	294 351,809 167,443	100 395,300 145,296	20 400,754 132,154	398,494 138,000	396,020 121,686	436,649 122,586	10 453,386 98,294	347,878 3,478,086 1,378,562				
Diclofenac Sodium Voltaren/K Diclofenac Sodium	502,688	******										
Flurbiptoten Sodium	2025044	535,093	560,708	543.855	551,910	596.713	750,280	5,578,333				
Ocufen® Flurbiprofen Sodium	1,233 374,838	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				
Flurbiprofen Sodium: Ketorolae Trometh Acular X Acular LS % Acular PF X Acura ilX	1,233 374,838 36,470 26,335 51,888	1,638 379,518 35,605 20,425 45,744	1,755 373,435 32,395 22,160 42,600	1.348 364,760 30,035 14,360 38,832	1,553 383,595 31,170 12,720 34,489	1,820 413,898 28,355 11,050 30,732	1,813 396,418 27,680 13,180 28,512	16,568 3,812,005 316,270 157,485 452,018				
Flurbiprofon Sodium Ketorolae Trometh Acularik Acularik Acular LS % Acular PFÄ Acunaiik Ketorolae Trometh	1,233 374,838 36,470 26,335	1,538 379,518 35,605 20,425	1,755 373,435 32,395 22,160	1,348 364,760 30,035 14,360	1,553 383,595 31,170 12,720	1,820 413.898 28,355 11,050	1,813 396,418 27,680 13,180	16,568 3,812,005 316,270 157,485				
Flurbiprofen Sodium Ketoralae Trometh Acular LS & Acular LS & Acular PF# Acus ail% Ketorolae Trometh Nepalenae Nevanae®	1,233 374,838 36,470 26,335 51,888 2,097,863	1,638 379,518 35,605 20,425 45,744 2,047,418	1,755 373,435 32,395 22,160 42,600 2,291,024 313,089	1,348 364,760 30,035 14,360 38,832 2,155,104 268,098	1,553 383,595 31,170 12,720 34,489 2,280,242 215,124	1,820 413,298 28,355 11,050 30,732 2,474,306 191,073	1.813 396.418 27,680 13,180 28,512 2,476,162	16,568 3,812,005 316,270 157,485 452,018 22,560,324 3,773,994				
Flurbiprofen Sodium: Ketorolae Trometh Aculark Acular LS % Acular PF# Acunail Ketorolae Trometh Nepalenae Nevanae® Ilevro%	1,233 374,838 36,470 26,335 51,888 2,097,863 397,134 217,877	1,638 379,518 35,605 20,425 45,744 2,047,418 353,421 277,700	1,755 373,435 32,395 22,160 42,600 2,291,024 313,089 309,477	1.348 364,760 30,035 14,360 38,832 2,155,104 268,098 347,156	1,553 383,595 31,170 12,720 34,489 2,280,242 215,124 337,635	1,820 413,898 28,355 11,050 30,732 2,474,306 191,073 363,891	1,813 396,418 27,680 13,180 28,512 2,476,162 176,070 379,296	16,568 3.812.005 316,270 157,485 452,018 22,360,324 3,773,994 2,554,635				

Notes & Sources: 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			200	OF THE PERSON NAMED IN COLUMN 1	20		200	7	
		Q2	Q3	Q4	Q1	Q2	03	Q4	Qt	Q2	Q3	Q4
Brumfenae Sodium Kibrem & Bramday & Prolossak Bramfinae Sodium		\$953 02	\$96.85	\$89.08	\$104.58	\$123.6k	\$111.0)	\$108.35	\$165.56	\$107.26	\$104.92	\$107.51
Dictofenac Sodium Voltaren Dictofenac Sodium		\$69.31 \$92.35	\$70.17	\$70.42 \$89.53	\$77-64	\$8165	\$79.44	\$79.91	\$92.35	\$96.35	\$94.58	\$94.38
Flurbiproitin Sodium Ocarion® Flurbiproitin Sodium		\$118.36 \$46.95	\$129.35 \$44.94	\$140.31 \$46.59	\$168.14 \$46.84	\$192.78 \$48.20	\$207.3K \$42.88	\$211.20 \$44.65	\$187.22 \$36.26	\$226.17 \$36.26	\$217.92 \$33.16	\$240 m \$32.63
Ketorolae Trometh Aculer E.S.W. Aculer PF% Acuter PF% Acuter PF% Cetorolae Trometh		\$80 47 \$62 86 \$157 39	\$80.46 \$64.58 \$13   33	\$81.79 \$63.47 \$163.05	\$87.95 \$67.63 \$112.30	\$90.08 \$68.91 \$202.52	\$89.35 \$67.86 \$199.25	\$88.29 \$69.78 \$212.22	\$94.47 \$70.24 \$212.90	\$98.66 \$73.53 \$200.16	\$102.12 \$74.95 \$221.70	\$79.30 \$73.36 \$220.5
Nepalenac Nevanaciti Herrolli			\$254.92	\$87.56	\$74.41	\$70,14	\$67.54	\$67,79	\$69.21	\$7),90	\$72.19	\$73.8
Total	- C	\$73.26	\$73.81	\$75,04	\$78,12	580.69	\$78,08	\$78.57	\$80,69	334,09	\$84.45	\$84 tH
Total (Excluding Fluringration Sedium products and Acular PF%)		\$73.57	\$74.29	\$75.49	\$78,83	581.13	\$78.G4	\$79.07	\$11.56	\$85.05	\$85.53	\$x5 T
Total Xibrom®/Bromday®/Prolensa®		\$953.02	596.85	589.08	\$104.58	\$123.68	\$111.01	\$108.35	\$105.56	\$107.26	\$104.92	51075
		200				200	n .			201	n	
	Q1	Q2	Q3	04	Q1	Q2	Q)	04	QI	Q2	Q3	Q4
Bromfenat Sodium Xibrom'E Bromday# Prolensa# Bromfanat Sodium	\$111.69	\$118.97	\$121.38	\$126.53	\$137,07	\$144,66	\$143.15	\$149,85	\$162.90	\$169,14	\$168.70	\$175.35 \$226.15
Diclofense Sodium												
Voltaren® Dielofenac Sedium	\$102.73	\$108.71 \$28.26	\$118.89	\$124.34 \$20.38	\$155,07 \$21,61	\$172,67	£133 87 \$20.57	\$155,62 \$18.94	\$195,30 \$23,26	\$83.99 \$16.03	\$115.22 \$14.62	
Voltaren® Dielofenac Sedium Flurbiproten Sedium Ocufen®												\$13.9
Voltareniò Distofenac Sedium Flurbiproten Sedium	\$46.60 \$236.91	\$28.26 \$174.26	\$24.95 \$229.60	\$20.38 \$229.50	\$21,61 \$269.38	\$19.61 \$240.59	\$20.57 \$343.30	\$18.94	\$23-26	\$16.03	\$14.62 \$241.36	\$117 % \$13.91 \$273.67 \$21.81 \$183.77 \$166.41 \$113.60 \$13.60
Voltaren® Dielofenae Sodium Flurbiprofen Sodium Ocaten® Flurbiprofen Sodium Neisorolae Trometh Acular® Acular B Acular BP® Acular BB®	\$46.60 \$236.91 \$30.96 \$166.84 \$75.79	\$28.26 \$174.26 \$30.82 \$110.48 \$81.09	\$24.95 \$229.60 \$29.51 \$114.75 \$80.00	\$20.38 \$329.50 \$27.84 \$114.90 \$79.57	\$21.61 \$269.38 \$29.47 \$132.65 \$94.57	\$19.61 \$240.59 \$26.64 \$141.07 \$97.29	\$20.57 \$343.30 \$25.64 \$150.27 \$101.31 \$278.39	\$18.94 \$274.86 \$24.49 \$146.83 \$92.20 \$64.53 \$179.41	\$23-26 \$252, 18 \$24-30 \$145.86 \$87.36 \$18.98 \$167.80	\$16.03 \$232.05 \$23.91 \$127.82 \$83.65 \$9.85 \$127.71	\$14.62 \$241.36 \$21.04 \$162.66 \$115.36 \$40.20 \$131.34	\$13.91 \$273.61 \$21.81 \$183.71 \$166.41
Voltaren® Dielolienae Sodium Flarbiprofen Sodium Cleafen® Flarbiprofen Sodium Restorolae Trometh Acular® Acular B Acular ES® Acular IS® Restorolae Trometh Nepelinae Nepelinae Nevanae® Restorolae Trometh Nepelinae	\$46.60 \$236.91 \$30.96 \$106.24 \$75.79 \$224.43	\$28.26 \$174.26 \$30.82 \$110.48 \$81.09 \$2.14.64	\$24.95 \$229.60 \$29.51 \$114.75 \$80.80 \$227.68	\$229.50 \$27.84 \$114.90 \$79.57 \$263.97	\$21.61 \$269.38 \$29.47 \$132.05 \$94.57 \$310.35	\$19.61 \$240.59 \$26.64 \$141.07 \$97.29 \$337.10	\$20.57 \$343.30 \$25.64 \$150.27 \$101.31 \$278.39 \$538.19	\$18.94 \$274.86 \$24.49 \$146.83 \$92.20 \$64.53 \$179.41 \$37.70	\$23.26 \$252.18 \$24.30 \$145.86 \$87.36 \$18.98 \$167.80 \$16.91	\$16.03 \$232.05 \$23.91 \$127.82 \$83.65 \$9.85 \$127.71 \$15.49	\$14.62 \$241.36 \$21.94 \$162.66 \$115.36 \$40.20 \$131.34 \$14.34	\$13.0 \$273.6 \$21.81 \$183.77 \$166.4 \$113.6 \$13.6
Voltarenik Dielolénac Sodium Flarbiprolen Sodium Coutlenik Flarbiprolen Sodium Netorolac Trometh Acutlar IX Acutlar IX Acutlar IX Acutar IX	\$46.60 \$236.91 \$30.96 \$166.84 \$75.79 \$224.43	\$28.26 \$174.26 \$30.82 \$110.48 \$81.09 \$214.64	\$24.95 \$229.60 \$29.51 \$114.75 \$80.00 \$227.08	\$20.38 \$229.50 \$27.84 \$114.90 \$79.57 \$263.97	\$21.61 \$269.38 \$29.47 \$132.65 \$94.57 \$310.35	\$19.61 \$240.59 \$26.64 \$141.07 \$97.29 \$337.10 \$85.58	\$20.57 \$343.30 \$25.64 \$150.27 \$101.31 \$278.39 \$538.19	\$18.94 \$274.86 \$24.49 \$146.83 \$92.20 \$64.53 \$179.41 \$37.70 \$95.39	\$23.26 \$252.18 \$24.30 \$145.86 \$87.36 \$18.98 \$167.80 \$16.91 \$103.79	\$232.05 \$23391 \$127.82 \$83.65 \$9.85 \$127.71 \$15.49	\$14.62 \$241.36 \$21.04 \$162.66 \$115.36 \$40.20 \$131.34 \$14.34 \$105.32	\$13.0 \$273.6 \$21.8 \$183.7 \$166.4 \$113.6 \$13.6

APPENDIX 9

#### OPHTHALMIC NSAIDS AVERAGE SELLING PRICE PER PRESCRIPTION UNITED STATES

		201	r.			201	2			201	3	
MERCHANIC COMMINENCE	QI .	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4
Bromfenac Sodium Xibrom® Bromday®	\$213.83 \$116.31	\$377 12 \$114 78	\$31.55 \$127.11	\$16.00 \$147.57	\$6.35 \$157.05	\$1.84 \$171.14	\$15.68 \$173.88	\$20,61 \$178.74	\$177.72	\$169.83	\$155.61	\$18.56
Prolense & Bromfenac Sodium		\$381.98	\$145.79	\$153.50	\$153.30	\$148.78	\$143.69	\$165.77	\$169.64	\$238 92 \$174 37	\$172.61 \$162.32	\$157.1X \$173.39
Diclofenae Sodium Voltaren® Diclofenae Sodium	\$136.26 \$13.88	\$152.54 \$13.06	\$106.71 \$11.78	\$100.61 \$12.69	\$75.85 \$10.85	\$28.67 \$10.70	\$7.37 \$10.91	\$11.67 \$9.95	S9 X7	\$9.62	\$9.16	5× 87
Flurbiprofen Sodium	3.12.30		35.5.5.155	AP CALL	100000		7500054	A1116	(15.500.50)		0.850 (3.05)	1 221000
Ocufen's Flurbiprofen Sodium	\$186 45 \$21.02	\$374.72 \$20.26	\$354.82 \$17.84	\$403.55 \$17.98	\$861.42 \$15.37	\$434.89	\$468.39 \$14.58	\$501.94 \$14.85	\$580.38 \$14.70	\$367.55 \$14.82	\$397.58 \$14.42	\$434.34 \$13.57
Ketorolac Trometh												
Acular LS & Acular LS & Acular PF %	\$219.90 \$194.27	\$211.25 \$176.40	\$248.59 \$211.42	\$267.56 \$177.42	\$318.09 \$212.92	\$343.22 \$223.92	\$331.03 \$255.45	\$321.23 \$252.61	\$464.68 \$269.73	\$477.05 \$234.22	\$520 99 \$268 58	\$578.51 \$389.34
Acuvail® Ketorolae Trometh	\$114.35 \$13.51	\$121.89 \$13.65	\$149.52 \$12.76	\$157.70 \$13.20	\$163.73 \$11.18	\$124,29 \$10.95	\$139.57 \$11.90	\$168.52 \$10.71	\$196.54 \$19.31	\$198.96 \$10.43	\$223.26 \$10.21	\$225 01 \$9 98
Nepalenac Nevanac@ Ilevro@	\$130.98	\$130.24	\$129,57	\$132.84	\$131.00	£132 27	\$133.50	\$137.21	\$148.73 \$1.587.43	\$149.20 \$149.51	\$145 K0 \$141 T0	\$145.70 \$131.76
Total	\$92.24	16.182	\$75.37	\$83.51	\$82.28	\$82.68	\$83.83	\$86.34	\$89.12	\$85.65	\$81.31	\$78.78
Total (Excluding Flurbiprofen Sodium products and Acular PFR)	\$94.61	SN3 67	\$77.37	\$85.72	\$84.72	\$85.12	\$86.41	\$88.93	\$91.80	\$88.27	\$83.87	\$81.33
Total Xibrom@/Bromday@/Prolensa@	\$165.95	\$141.49	\$123.62	\$145.16	\$155.86	\$170.70	\$173.70	\$178.62	\$177.63	\$178.43	\$166.30	\$144.84
		201	4			2015		2013 O2 -				
	QI	Q2	Q3	Q4	Q1	Q2	Q3	2015 Q3				
Bromfenac Sodium Xibrom®								N/M*				
Bromday@	\$9.73	\$10.23	\$6:76				\$50.92	\$153.00				
Prolensa K	\$172,35	\$173.88	\$171.41	\$168,10	\$189,36	\$182.52	\$184.61	\$175.87				
Brom/enac Sodium	\$202.89	\$154.40	\$129.45	\$137.38	\$128.92	\$129.01	\$113.88	\$151.33				
Diclofenac Sedium Voltaren®								N/M*				
Diclofenac Sodium	\$8.14	\$7.55	\$6.90	\$6.77	\$6.89	\$6.37	\$8.15	\$7.79				
Flurbiprofen Sodium												
Oculent Flurbiprofen Sodium	\$369.97 \$13.83	\$568.86 \$12.95	\$893.07 \$12.34	\$436.26 \$12.41	\$434.89 \$13.35	\$13.01	\$918.42 \$12.32	\$490.40 \$13.27				
Ketorolae Trometh	313.63	312.25	214	31241	313.33	2012/01	244.24	184 2027				
Acular®	\$G48.04	\$567.86	\$464.25	\$503.26	\$681.94	\$491.11	\$532,29	\$542.66				
Acular LS *	\$355 69	\$409.61	\$347,71	\$393.77	\$546.89	\$569.80	\$655,00	\$385,31				
Acular PF® Acusail®	\$283.98	\$281.75	\$283.87	\$278.83	\$301.63	\$313.65	\$331.73	N/M* \$258.30				
Ketorolae Trometh	\$13.37	\$13.60	\$15.24	\$16.78	\$20,14	\$19.26	\$18.15	\$14,87				
Nepafenac	7:30 FORD - 17	1,000,000		7744974 2377	*******	accessary.	V BANKS PRO	2022				
Nevanae® liesro®	\$158.06 \$153.72	\$159.77 \$154.37	\$179.56 \$163.21	\$191.89 \$172.97	\$206.89 \$186.04	\$235,78 \$200.62	\$241,99 \$202.83	\$166,70 \$172.49				
Total	\$90.13	\$86.76	\$88.79	592.23	\$98.12	\$97.28	\$97,38	\$89.74				
Total (Excluding Flurbiprofen Sodium products and Acular PF®)	\$93.10	\$89.51	\$91.71	\$95.26	\$101.49	200.66	\$100.76	\$92.70				
10												
Total Xibrom®/Bromday®/Prolensa®	\$169.48	\$172.91	\$171.11	\$168.01	\$189.31	\$182.49	\$184.60	\$172.82				

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.

APPENDIX 10

#### OPHTHALMIC NSAIDS AVERAGE SELLING PRICE PER MILLILITER OF DRUG UNITED STATES

Configure   Conf				2005			200	6			200	7	
Name			Q2		Q4	Q1			Q4	Q1			Q4
Volument   Sin 24   Sin 230   Sin 27   Sin 264   Sin 27   Sin 264   Sin 27   Sin 262   Sin 230   Sin 21   Sin 265   Sin 230   Sin 230   Sin 27   Sin 220   Sin 230	Xibrom® Bromday® Proleasa®		\$14.97	\$14.88	\$14.89	\$18.28	\$24.80	\$24.79	\$25,00	\$25,79	\$26.99	\$27.62	\$28.76
Designer   Sofie   S						\$10.64	\$10.78	\$10.67	\$10.62	\$12.30	\$12.31	\$12.05	\$12.32
Katerink   Sit 99   Sit 83   Sit 95   Sit 83   Sit 95													\$3.48 \$1.52
Netrance	Ketorolae Trometh Acular® Acular LS® Acular PFno Acunail®		\$10.90 \$11.31	\$10.83 \$11.28	\$10.75 \$11.25	\$11.47 \$11.99	\$11.72 \$12.19	\$11.63 \$12.16	\$1153 \$1201	\$12.07 \$12.74	\$12.48 \$13.19	\$12.38 \$13.17	\$12.29 \$12.97 \$10.40
Total (Excluding Plurisprofen Sodium   S10.97   S11 13   S12.04   S13.18   S13.82   S13.92   S14.12   S14.97   S15.58   S15.83   S16.21   Total Xibrom WiBromdays WiProtenss # S14.97   S14.88   S14.89   S18.28   S24.80   S24.79   S25.00   S25.79   S26.99   S27.62   S28.76				\$20 83	\$20,78	\$20.73	\$20,60	\$20,48	\$20.49	\$2130	\$21.85	\$21 KK	\$21.92
Single   S	Total		\$9.89	\$10.03	\$10.79	\$11.78	\$12.40	\$12.55	\$12.69	\$13.54	\$14.14	\$14.39	\$14.69
Bromfenac Sodium   Xibrom%   \$29,92 \$31,58 \$31,58 \$33,67 \$35,21 \$37,47 \$37,54 \$39,44 \$41,86 \$43,89 \$45,19 \$47,98 \$10,004,000 \$71,27 \$11,08 \$11,14 \$11,34 \$12,37 \$13,40 \$31,44 \$14,8 \$14,27 \$16,24 \$13,27 \$13,00 \$13,00 \$13,24 \$14,27 \$16,24 \$13,27 \$13,00 \$13,00 \$13,26 \$16,28 \$15,87 \$16,24 \$13,37 \$13,00 \$13,00 \$13,20 \$14,27 \$16,37 \$13,00 \$13,00 \$13,20 \$14,27 \$13,00 \$13,00 \$13,20 \$14,27 \$13,00 \$13,00 \$14,27 \$13,00 \$13,00 \$14,27 \$13,00 \$13,00 \$14,00 \$1	Total (Excluding Plurbiprofen Sodium products and Acular PF/h)		\$10.97	\$11.13	\$12.04	\$13.18	\$13.82	\$13.92	\$14.12	\$14.97	\$15.58	\$15.83	\$16.21
Bromfenac Sodium   Xibrom %   \$29.92   \$31.58   \$31.58   \$33.67   \$35.21   \$37.47   \$37.54   \$39.44   \$41.86   \$43.89   \$45.19   \$47.98   \$17.27	Total Xibrom/W/Bromday/W/Prolensa@		\$14,97	\$14.88	\$14.89	\$18.28	\$24-80	\$24.79	\$25.00	\$25.79	\$26.99	\$27.62	\$28.76
Bromfenac Sodium   Xibrom %   \$29.92   \$31.58   \$31.58   \$33.67   \$35.21   \$37.47   \$37.54   \$39.44   \$41.86   \$43.89   \$45.19   \$47.98   \$17.27			200	2			200	0			2011	î.	
Xibrem®   \$29.92   \$31.58   \$31.58   \$33.67   \$35.21   \$37.47   \$37.54   \$39.44   \$41.86   \$43.89   \$45.19   \$47.99     Bromday®   Bromfenae Sodium     Dicolofenae Sodium     Dicolofenae Sodium     Dicolofenae Sodium     Since   Since   Since   Since     Since   Since   Since   Since     Since   Since   Since   Since     Since   Since   Since   Since     Since   Since     Since   Since   Since     Since   Since   Since     Since   Since   Since     Since   Since   Since     Since   Since   Since     Since   Since   Since     Since   Since   Since     Since   Since   Since     Since   Since   Since     Since   Since   Since     Since   Since   Since     Since   Since   Since     Since   Since   Since     Since   Since   Since     Since   Since     Since   Since   Since     Si		QI			Q4	Q1			Q4	Qi			Q4
Voltaren®   S11 24   S10.54   S11.11   S11.39   S12.44   S11.91   S13.10   S13.06   S12.58   S12.46   S12.41   S12.36   S12.58   S12.46   S12.36   S12.58   S12.46   S12.38   S12.37   S13.64   S12.37   S12.37   S13.64   S12.37   S13.44   S12.37   S13.44   S12.37   S13.44   S12.37   S13.44   S12.37   S13.45   S14.65   S16.62   S15.92   S14.03   S14.59   S14.37   S13.34   S13.44   S12.37	Xibrom@ Bromday@ Prolonsa@	\$29.92	\$31.58	\$31.58	\$33.67	\$35.21	\$37.47	\$37.54	\$39,44	\$41.86	\$43.89	\$45,19	\$47.98 \$71.27
Design   Section   Secti													\$12.36 \$1.64
Reterolac Trometh   Acular   S13,00   S13,21   S13,42   S13,72   S14,70   S15,83   S16,62   S15,92   S14,03   S14,59   S14,37   S13,94   S13,93   S13,61   S14,62   S14,99   S15,73   S17,67   S18,56   S18,66   S16,28   S15,87   S16,24   S16,80   S16,28   S15,87   S16,24   S16,80   S16,28   S15,87   S16,24   S16,80   S16,28   S15,87   S16,80   S16,28   S15,87   S16,80   S16,28   S15,87   S16,80   S16,80   S16,28   S15,87   S16,80   S16,80   S16,28   S15,87   S16,80	Flurbiprofen Sodium								22002	\$5.47	<b>\$5.01</b>	\$6.05	\$6.76
Nexumac® \$23.26 \$23.35 \$23.31 \$23.31 \$24.62 \$24.87 \$26.68 \$27.06 \$29.13 \$29.35 \$31.00 \$33.80 llevro® \$25.00 \$15.00 \$15.00 \$33.80 \$35.80												\$1.37	\$1.38
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 \$17.62	Flurbiprofen Sodium Ketorolae Trometh Acular® Acular PF® Acular PF® Acuvail®	\$1.51 \$13.00 \$13.93	\$1.48 \$13.21 \$13.61	\$1.47 \$13.42 \$14.62	\$1.46 \$13.72 \$14.99	\$14.70 \$15.73	\$1.43 \$15.83 \$17.67	\$1.44 \$16.62 \$18.56 \$13.34	\$1.42 \$15.92 \$18.66 \$13.44 \$8.56	\$14.03 \$16.28 \$14.73 \$8.56	\$1.37 \$14.59 \$15.87 \$16.31 \$8.35	\$14.37 \$16.24 \$16.75 \$8.77	
products and Acutar PF@) \$16.59 \$16.50 \$17.53 \$18.24 \$19.17 \$20.62 \$20.90 \$15.01 \$14.12 \$15.55 \$16.25 \$17.62	Flurbiprofen Sodium Ketorolac Trometh Acular IS. Acular IS. Acular PF® Acuvoil® Ketorolac Trometh Nepafenac Nevanac®	\$1.51 \$13.00 \$13.93 \$10.77	\$1.48 \$13.21 \$13.61 \$11.08	\$1.47 \$13.42 \$14.62 \$11.14	\$1.46 \$13.72 \$14.99 \$11.54	\$157 \$1470 \$15.73 \$12.37	\$1.43 \$15.63 \$17.67 \$13.41	\$1.44 \$16.62 \$18.56 \$13.34 \$8.48	\$1.42 \$15,92 \$18,66 \$13.44 \$8.56 \$2.71	\$14.03 \$16.28 \$14.73 \$8.56 \$2.02	\$1.37 \$14.59 \$15.87 \$16.31 \$8.35 \$1.92	\$14.37 \$16.24 \$16.75 \$8.77 \$1.91	\$13.95 \$13.95 \$16.80
	Flurbiprofen Sodium Ketorolac Trometh Acular IS. Acular IS. Acular PF® Acuvoil® Ketorolac Trometh Nepafenac Nevanac®	\$1.51 \$13.00 \$13.93 \$10.77 \$23.26	\$1.48 \$13.21 \$13.61 \$11.08	\$1.47 \$13.42 \$14.62 \$11.14	\$1.46 \$13.72 \$14.99 \$11.54 \$23.31	\$14.70 \$15.73 \$12.37	\$1.43 \$15.83 \$17.67 \$13.41 \$24.87	\$1.44 \$16.62 \$18.56 \$13.34 \$8.48	\$142 \$15,92 \$18,66 \$13,44 \$8,56 \$2,71	\$14.03 \$16.28 \$14.73 \$8.56 \$2.02	\$14,59 \$15,87 \$16,31 \$8,35 \$1,92	\$14.37 \$16.24 \$16.75 \$8.77 \$1.91	\$13.95 \$16.80 \$8.78 \$1.90
	Flurbiprofen Sodium Ketorolae Trometh Acular® Acular PF® Acular PF® Ketorolae Trometh Nepafenae Nevanae® Ilevtro®	\$151 \$13,00 \$13,93 \$10.77 \$23,26	\$13.21 \$13.61 \$11.08 \$23.35	\$13.42 \$14.62 \$11.14 \$23.31	\$1.46 \$13,72 \$14,99 \$11.54 \$23,31	\$1.57 \$14.70 \$15.73 \$12.37 \$24.62	\$1.43 \$15.63 \$17.67 \$13.41 \$24.87	\$1.44 \$16.62 \$18.56 \$13.34 \$8.48 \$26.68	\$142 \$15,92 \$18,66 \$13,44 \$8,56 \$2,71 \$27,06	\$14.03 \$16.28 \$14.73 \$8.56 \$2.02 \$29.13	\$1.37 \$14.59 \$15.87 \$16.31 \$8.55 \$1.92 \$29.35	\$14.37 \$16.24 \$16.75 \$8.77 \$1.91 \$31.00	\$13.95 \$16.80 \$8.78 \$1.90 \$32.80

APPENDIX 10

#### OPHTHALMIC NSAIDS AVERAGE SELLING PRICE PER MILLILITER OF DRUG UNITED STATES

		201	1			201	2			201	1	
	Q1	Q2	Q3	Q4	QT	Q2	Q3	Q4	Q1	Q2	Q3	Q4
Bromfenac Sodium	8						- 2	C C C C	90	62		
Xibrom®	\$47,64	\$47.91	\$46.97	\$46,59	\$43.74	\$41,40	\$39.92	\$43.71	0693959	200		
Bromday®	\$72.46	\$74.85	\$73.85	\$79.44	\$84.51	\$89.81	\$89.70	\$91.52	\$93.99	\$94.79	\$92,70	\$91.65
Professare Bromfesse Sodium		and the	1000 A 1 1 100	#24.0.7	THE RESERVE	CONTRACTOR OF C	Tale Street Cities	and the second second	Charles and America	\$62.49	\$67,59	\$70.84
		\$39.95	\$39.47	\$39.95	\$40.30	\$40.24	\$40.43	\$42.65	\$42.17	\$42.34	\$42.10	\$41.97
Dielofense Sodium												
Voltaren®	\$13.18	\$13.22	\$11.21	\$11.72	\$14.76	\$13.76	\$14.00	\$14.00				
Diclofenac Sedium	\$1.64	\$1.62	\$1.37	\$1.64	\$1.61	\$1.62	\$1.67	\$1.53	\$1.49	\$1.49	\$1.44	5140
Flurbiprofen Sodium												
Ocufenik:	\$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	\$1.30	\$131	\$1.27
Ketorolac Trometh												
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®	\$18,36	\$18.50	\$19.80	\$19.60	\$19.99	\$20.64	\$21.26	\$20.01	\$23.01	\$22.37	\$22.47	\$27.15
Acular PF®				127,222,0	(#55555#A.)	1,000,000	7550	A. 1860	3694.200	446.47	(Price 537.)	8000110
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
Ketorolas Trometh	\$1.85	\$1.89	\$1.78	\$1.83	\$1.77	\$1.71	\$1.91	\$1.69	\$1.59	\$1,64	\$1.63	\$1.66
Nepafenac												
Nevanae%	\$37.42	\$37.57	\$38.55	\$38.93	\$40.51	\$40.53	\$41.99	\$42.17	\$45,25	\$45.42	\$45,36	\$45.64
Hevro®									\$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	\$18.03
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 -				
	01	02	Q3	Q4	01	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				
Bromfenae Sodium	\$48.21	\$44.53	\$42.01	\$41.60	\$37.00	\$36,06	\$38.08	\$41.78				
Diclofenac Sodium												
Voltaren®												
Diclofenac Sodium	\$1.26	\$1.22	\$1.10	\$1.11	\$1.07	\$1.02	\$1.07	\$1.20				
Flurbiprofen Sedium												
Ocufen®	\$9.30	\$7.29	\$7,12	\$7.44	\$7.84	\$7.35	\$9.62	\$7.64				
Flurbiprolen Sodium	\$1.24	\$1.21	\$1.22	\$1.23	\$1.23	\$1.21	\$1.19	\$1.24				
Ketorolac Trometh							1000000	35.78				
Acular®	\$11.66	\$11,26	\$8.90	\$11.43	\$12.51	\$10.32	\$10.06	\$11.46				
Acular LS®	\$24,62	\$21.28	\$20.57	\$22,02	\$23.82	\$24.55	\$25.39	\$23.45				
Acular PF(E)	327,02	461.30	920 37	344,02	343.04	324,33	343,39	343,43				
Acuvail%	\$15.05	\$15.32	\$15.24	\$15.58	\$16.53	\$17.05	\$17.91	\$15.24				
Ketorolae Trometh	\$2,12	\$2.52	\$2.57	\$2.94	\$3.19	\$3.19	\$2.98	\$2.46				
Nepafenac				9/52/10	94/96	CONVENTED.	B114/62	parent (				
Nevanac®	\$48.96	\$48.91	\$53.28	\$56,69	\$60.31	\$67.16	\$65.77	\$50.49				
llevre ₩	\$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	50000	455		750000	2000	4.5%	424 35	100				
products and Acular PF®)	\$20.79	\$22.00	\$21.55	\$23.07	\$22.53	\$22.68	\$21 94	\$21.09				
7												
Total Xibrom®/Bromday®/Prolensa®	\$73.19	\$71.99	\$71.53	\$71.45	\$75.03	\$69.53	\$68.77	\$73.10				

Notes & Sources: Extended units are defined as the number of millifiters 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

			2005			200	6			200	7	
		02	Q3	Q4	Q1	02	Q3	04	01	02	Q3	Q4
Bromfenac Sodium Xibrom® Bromday® Prolensa® 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® Hevro®			\$1,481	\$6,923	\$7,774	\$7,443	\$4,307	\$4,302	\$9,306	\$4,563	\$5,275	\$3,030
Total	(A)	\$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	0			200	0			201	0	
	QI	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4
Bromfenac Sodium Xibrom® Bromday®	\$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
Prolensa® Bromfenac Sodium												
	\$6		\$1				\$9		\$180 \$282	\$121		\$70
Bromfenac Sodium Diclofenac Sodium Voltaren®	\$120 \$7,114 \$69	\$695 \$5,653	\$1 \$92 \$10,131	\$250 \$5,704 \$7	\$288 \$7,978	\$46 \$17,451	\$633 \$6,544 \$2,274	\$42 \$1,221 \$2,914		\$121 \$1,385	\$113 \$601	\$70 \$230 \$420
Bromfenac Sodium  Diclofenac Sodium  Voltaren®  Diclofenac Sodium  Ketorolac Trometh  Acular®  Acular LS®  Acular PF®  Acusar PF®  Acusar PF®	\$120 \$7,114		\$92	\$5,704			\$633 \$6,544	\$1,221	\$282 \$886 \$442			\$230
Bromfenac Sodium Diclofenac Sodium Voltaren® Diclofenac Sodium Ketorolac Trometh Acular® Acular LS® Acular PF® Acuvail® Ketorolac Trometh Nepafenac Nevanac®	\$120 \$7,114 \$69	\$5,653	\$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
Bromfenac Sodium  Diclofenac Sodium  Voltaren® Diclofenac Sodium  Ketorolac Trometh Acular® Acular LS® Acular PF® Acuvail® Ketorolac Trometh Nepafenac Nevanac® Ilevro®	\$120 \$7,114 \$69 \$5,944	\$5,653 \$6,185	\$92 \$10,131 \$7,923	\$5,704 \$7 \$3,925	\$7,978 \$5,869	\$17,451 \$5,730	\$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

#### APPENDIX II

#### OPHTHALMIC NSAIDS TOTAL PROMOTIONAL SPENDING UNITED STATES

		201	1			201				201	3	
	Q1	Q2	Q3	Q4	Q1	Q2	Q3	.04	01	OZ.	Q3	Q4
Bromfenac Sodium Xibcom® Bromday® Prolensa® Biomfenac Sodium	\$963 \$31,039	\$24 \$26,759	\$20,298	\$25 \$12,897	\$1,075 \$19,326	\$15,369	\$16,280	\$57 \$21,720 \$37	\$26,900 \$121	\$7,676 \$12,282 \$282	\$9 \$15,727 \$54	\$373 \$11,662
Diclofenae Sodium Voltarento Diclofenae Sodium	\$95	\$108	\$192	\$213	\$215	\$285	\$171	\$168	S126			
Ketorolac Trometh Acular® Acular LS® Acular PF®	\$389						\$301	\$1,710	\$712	\$279		\$277 \$147
Acuvail® Ketorolac Trometh	\$174	2100	\$131	\$96	\$78	\$42	\$110	\$26	865	236	\$146	\$28
Nepafenac Nevanacib Hevro®	898,82	\$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	525,345	\$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	521,440	\$27,430	\$35,949	\$29,699	\$23,068	\$25,019
Total Xibrom@/Bromday@/Prolemse@	\$32,004	\$26,783	\$20,298	\$12,922	\$20,401	\$15,369	\$16,280	\$21,778	\$26,960	\$19,958	\$15,735	\$12,035
		201	4			2015		2013 Q2 -				
	Q1	Q2	Q3	Q4	Q1	Q2	Q3	2015 Q3				
Bromfenac Sodium Xibsom® Bromday® Prolessa® 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 Sudium - Voltaren® Diclofenac Sodium												
Ketorolac Trometh Acular® Acular LS© Acular PF®	\$23			\$161				\$277 \$609				
Acuvail® Ketorolac Trometh	550	\$54	\$71	\$37				\$422				
Nepalenac Nevanacib Hovro®	\$1,636 \$9,593	\$468 \$5,436	\$208 \$5,966	\$99 \$8,948	\$6,208	\$10,237	\$5,771	\$13,573 \$72,807				
Total	\$26,149	\$20,838	\$22,538	\$25,316	\$18,228	\$21,562	\$15,192	\$227,509				
Total (Excluding Acular PF®)	\$26,149	\$20,838	522,538	\$25,316	518,228	\$21,562	\$15,192	\$227,609				

Notes & Sources: In thousands Flurbiprofen Sodium products promotional spending is 0. From IMS Data.

APPENDIX 12

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

	2005			2006	5			2007		
Q2	Q3	Q4	Ql	Q2	Q3	Q4	QI	Q2	Q3	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% \$3.7%	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%
200	8			2009	)			2010	)	
Q2	Q3	Q4	QI	Q2	Q3	Q4	Q1	Q2	Q3	Q4
56.5%	35.7%	36.8%	38.5%	30.5%	39.1%	29.9%	45.9%	57.3%	42.6%	27,1% 663.0%
					A 99Z		182.6%			
					4.070					
6.0%	0.9% 56.6%	2.6% 31.9% 3.0%	2.7% 38.3%	0.4% 75.8%	5.1% 30.2%	0.6% 12.5% 21.3%	46.3% 29.8%	24.2%	11.5%	24.8%
31.6%		31.9%			5.1% 30.2%	12,5%	46.3% 29.8%	24.2% 24.4%		
31.6%	56.6%	31.9% 3.0%	38.3%	75.8%	5.1% 30.2% 146.1%	12.5%	46.3% 29.8% 14.6%		11.5%	11.2%
	22.2% 3.3% 68.9% 3.5% 28.1% 161.1% 200: Q2	22.2% 20.6%  3.3% 4.6% 68.9% 53.7% 3.5%  240.4%  281.6% 2008  Q2 Q3 6 56.5% 35.7%	Q2         Q3         Q4           161.1%         281.6%         136.6%           22.2%         20.6%         47.4%           3.3%         4.6%         4.7%           68.9%         53.7%         84.9%           3.5%         9.4%           240.4%         124.3%           28.1%         39.0%         60.1%           161.1%         281.6%         136.6%           Q2         Q3         Q4           6         56.5%         35.7%         36.8%	Q2         Q3         Q4         Q1           161.1%         281.6%         136.6%         153.5%           22.2%         20.6%         47.4%         58.4%           3.3%         4.6%         4.7%         3.2%           68.9%         53.7%         84.9%         74.6%           3.5%         9.4%         117.2%           240.4%         124.3%         117.2%           28.1%         39.0%         60.1%         64.3%           161.1%         281.6%         136.6%         153.5%           2008         Q2         Q3         Q4         Q1           6         56.5%         35.7%         36.8%         38.5%	Q2         Q3         Q4         Q1         Q2           161.1%         281.6%         136.6%         153.5%         110.6%           22.2%         20.6%         47.4%         58.4%         52.1%           3.3%         4.6%         4.7%         3.2%         7.2%           68.9%         53.7%         84.9%         74.6%         61.0%           3.5%         9.4%         117.2%         98.6%           28.1%         39.0%         60.1%         64.3%         55.0%           161.1%         281.6%         136.6%         153.5%         110.6%           2008         2009         2009         2009           Q2         Q3         Q4         Q1         Q2           6         56.5%         35.7%         36.8%         38.5%         30.5%	Q2         Q3         Q4         Q1         Q2         Q3           161.1%         281.6%         136.6%         153.5%         110.6%         62.9%           22.2%         20.6%         47.4%         58.4%         52.1%         29.8%           3.3%         4.6%         4.7%         3.2%         7.2%         5.7%           68.9%         53.7%         84.9%         74.6%         61.0%         58.2%           3.5%         9.4%         117.2%         98.6%         58.1%           28.1%         39.0%         60.1%         64.3%         55.0%         40.4%           161.1%         281.6%         136.6%         153.5%         110.6%         62.9%           2008         2009         2009         Q2         Q3         Q4         Q1         Q2         Q3           6         56.5%         35.7%         36.8%         38.5%         30.5%         39.1%	Q2         Q3         Q4         Q1         Q2         Q3         Q4           161.1%         281.6%         136.6%         153.5%         110.6%         62.9%         55.2%           22.2%         20.6%         47.4%         58.4%         52.1%         29.8%         12.8%           3.3%         4.6%         4.7%         3.2%         7.2%         5.7%         2.7%           68.9%         53.7%         84.9%         74.6%         61.0%         58.2%         62.9%           3.5%         9.4%         117.2%         98.6%         58.1%         56.1%           240.4%         124.3%         117.2%         98.6%         58.1%         56.1%           28.1%         39.0%         60.1%         64.3%         55.0%         40.4%         40.6%           161.1%         281.6%         136.6%         153.5%         110.6%         62.9%         55.2%           2008         2009         209         Q2         Q3         Q4         Q1         Q2         Q3         Q4           6         56.5%         35.7%         36.8%         38.5%         30.5%         39.1%         29.9%	Q2         Q3         Q4         Q1         Q2         Q3         Q4         Q1           161.1%         281.6%         136.6%         153.5%         110.6%         62.9%         55.2%         53.3%           22.2%         20.6%         47.4%         58.4%         52.1%         29.8%         12.8%         0.3%           3.3%         4.6%         4.7%         3.2%         7.2%         5.7%         2.7%         5.6%           68.9%         53.7%         84.9%         74.6%         61.0%         58.2%         62.9%         47.2%           3.5%         9.4%         117.2%         98.6%         58.1%         56.1%         118.8%           28.1%         39.0%         60.1%         64.3%         55.0%         40.4%         40.6%         46.8%           161.1%         281.6%         136.6%         153.5%         110.6%         62.9%         55.2%         53.3%           2008         209         22         Q3         Q4         Q1         Q2         Q3         Q4         Q1           6         56.5%         35.7%         36.8%         38.5%         30.5%         39.1%         29.9%         45.9%	Q2         Q3         Q4         Q1         Q2         Q3         Q4         Q1         Q2           161.1%         281.6%         136.6%         153.5%         110.6%         62.9%         55.2%         53.3%         50.5%           22.2%         20.6%         47.4%         58.4%         52.1%         29.8%         12.8%         0.3%         0.4%           3.3%         4.6%         4.7%         3.2%         7.2%         5.7%         2.7%         5.6%         2.5%           68.9%         53.7%         84.9%         74.6%         61.0%         58.2%         62.9%         47.2%         63.5%           3.5%         9.4%         117.2%         98.6%         58.1%         56.1%         118.8%         50.7%           240.4%         124.3%         117.2%         98.6%         58.1%         56.1%         118.8%         50.7%           28.1%         39.0%         60.1%         64.3%         55.0%         40.4%         40.6%         46.8%         38.8%           161.1%         281.6%         136.6%         153.5%         110.6%         62.9%         55.2%         53.3%         50.5%           Q2         Q3         Q4 <td< td=""><td>Q2         Q3         Q4         Q1         Q2         Q3         Q4         Q1         Q2         Q3           161.1%         281.6%         136.6%         153.5%         110.6%         62.9%         55.2%         53.3%         50.5%         35.0%           22.2%         20.6%         47.4%         58.4%         52.1%         29.8%         12.8%         0.3%         0.4%           3.3%         4.6%         4.7%         3.2%         7.2%         5.7%         2.7%         5.6%         2.5%         4.2%           68.9%         53.7%         84.9%         74.6%         61.0%         58.2%         62.9%         47.2%         63.5%         51.5%           3.5%         9.4%         117.2%         98.6%         58.1%         56.1%         118.8%         50.7%         54.7%           240.4%         124.3%         117.2%         98.6%         58.1%         56.1%         118.8%         50.7%         54.7%           28.1%         39.0%         60.1%         64.3%         55.0%         40.4%         40.6%         46.8%         38.8%         34.6%           161.1%         281.6%         136.6%         153.5%         110.6%         62.9%</td></td<>	Q2         Q3         Q4         Q1         Q2         Q3         Q4         Q1         Q2         Q3           161.1%         281.6%         136.6%         153.5%         110.6%         62.9%         55.2%         53.3%         50.5%         35.0%           22.2%         20.6%         47.4%         58.4%         52.1%         29.8%         12.8%         0.3%         0.4%           3.3%         4.6%         4.7%         3.2%         7.2%         5.7%         2.7%         5.6%         2.5%         4.2%           68.9%         53.7%         84.9%         74.6%         61.0%         58.2%         62.9%         47.2%         63.5%         51.5%           3.5%         9.4%         117.2%         98.6%         58.1%         56.1%         118.8%         50.7%         54.7%           240.4%         124.3%         117.2%         98.6%         58.1%         56.1%         118.8%         50.7%         54.7%           28.1%         39.0%         60.1%         64.3%         55.0%         40.4%         40.6%         46.8%         38.8%         34.6%           161.1%         281.6%         136.6%         153.5%         110.6%         62.9%

APPENDIX 12

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

	2013		
)4 QI	Q2	Q3	Q4
N/M* 74.8% 96.4%	32.3% 256.6%	0.1% 95.4%	140,7% 50,7%
72.4% 250.1% 2.7% 9.6%	112.9%	17.2%	78.3% 31.9% 3.5%
10.4% 19.4% 122.8%	11,7% 193,8%	7.8% 53.5%	22.0% 50.3%
36.0% 47.3%	38.1%	31.0%	33.7%
75.0% 96.4%	69.9%	62.5%	51,7%
Q2 -			
5 Q3			
24.7% 53.2%			
7.6% 16.5%			
ST. OF			
7.1%			
29.3%			
3 77 13 5	72.4% 96.4%  72.4% 250.1%  2.7% 9.6%  10.4% 19.4% 122.8%  47.3% 96.4%  Q2 - 9 Q3  24.7% 53.2%	72.4% 250.1% 112.9% 2.7% 9.6% 4.0% 112.8% 193.8% 193.8% 38.1% 75.0% 96.4% 69.9% Q2 - 6 Q3 24.7% 53.2%	72.4% 250.1% 112.9%  72.4% 250.1% 112.9%  2.7% 9.6% 4.0% 17.2%  10.4% 19.4% 11.7% 7.8% 122.8% 193.8% 53.5%  36.0% 47.3% 38.1% 31.0%  75.0% 96.4% 69.9% 62.5%  Q2 - 6.Q3  24.7% 53.2%

Calculated as Total Promotional Spending / Total Sales. From Appendix 11 and Appendix 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 \$24,000 in Q4 2012. For Bromday®, data indicates Total Sales of under \$1,000 and Total Promotional Spending of about \$24,000 in Q3 2015. Flurbiprofen Sodium products promotional spending is 0.

# QUARTERLY PROLENSA® DATA UNITED STATES

7 <u>/2</u>	Sales [A]	Total Prescriptions	_Extended Units Sold_	ASP per Prescription	ASP per Milliliter of Drug	Promotional Spending
		[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.