ttachment B-1 Immary of AED Treatments

	Approva	al Dates	Branded Name	Notes	Company	Approved Indications					
Compound	Branded	Approved Indications									
henytoin	1/6/1953	9/25/1992	Dilantin	[A]	Pfizer	Control of generalized tonic-clonic (grand mal) and complex partial (psychomotor, temporal lobe) seizures Prevention and treatment of seizures occurring during or following neurosurgery					
	2/11/1000	0./14/1006	Tegretol	[B]	Novartis	- Anticonvulsant - Treatment of pain associated with true trigeminal neuralgia					
/alproates 3/ Sabapentin 12/ .amotrigine 12/	3/11/1968	8/14/1986	Tegretol-XR	[C]	Novartis	- Anticonvulsant - Treatment of pain associated with true trigeminal neuralgia					
			Depakote	[D]	AbbVie	- Treatment of manic episodes associated with bipolar disorder - Monotherapy and adjunctive therapy in treatment of patients with complex partial seizures that occur either in isolation or in association with other types of seizures - Prophylaxis of migraine headaches					
/alproates	3/10/1983	2/28/1986	Depakote ER	[E]	AbbVie	- Treatment of acute manic or mixed episodes associated with bipolar disorder - prophylaxis of migraine headaches in adults - Monotherapy and adjunctive therapy in treatment of adults and children 10 years of age or older with complex partial seizures that occur either in isolation or in association with other types of seizures					
Gabapentin	12/30/1993	9/12/2003	- Management of postherpetic neuralgia in adults - Adjunctive therapy in treatment of partial seizures with and without secondary generalization in patients over 12 years of age with epilepsy - Adjunctive therapy in treatment of partial seizures in pediatric patients age 3–12 years								
.amotrigine	12/27/1994	6/21/2006	Lamictal	[G]	GlaxoSmithKline	- Adjunctive epilepsy therapy in patients at least 2 years of age for partial seizures, primary generalized tonic-clonic seizures, and generalized seizures of Lennox-Gastaut syndrome - Epilepsy monotherapy in patients at least 16 years of age - Bipolar disorder in patients at least 18 years of age					
			Lamictal XR	[H]	GlaxoSmithKline	Adjunctive therapy for primary generalized tonic-clonic (PGTC) seizures and partial onset seizures with or without secondary generalization in patients at least 13 years of age Conversion to monotherapy in patients at least 13 years of age with partial seizures who are receiving treatment with a single AED					
			Topamax	[1]	Janssen	Initial monotherapy in patients 10 years of age and older with partial onset or primary generalized tonic-clonic seizures Adjunctive therapy for adults and pediatric patients ages 2–16 years with partial onset seizures, or primary generalized tonic-clonic seizures, and in patients 2 years of age and older with seizures associated with Lennox-Gastaut syndrome For adults for prophylaxis of migraine headache					
Горіramate	12/24/1996	3/27/2009	Trokendi XR	[1]	Supernus	- Partial onset seizure and primary generalized tonic-clonic seizures - Lennox-Gastaut Syndrome					
			Qudexy XR	[K]	Upsher	Partial onset seizures and primary generalized tonic-clonic seizures initial monotherapy in patients 10 years of age and older with partial onset or primary generalized tonic-clonic seizures Adjunctive therapy in patients 2 years of age and older with partial onset or primary generalized tonic-clonic seizures Lennox-Gastaut Syndrome adjunctive therapy in patients 2 years of age and older with seizures associated with Lennox-Gastaut syndrome					
_evetiracetam	11/30/1999	11/4/2008	Keppra	[L]	UCB	Adjunctive therapy in treatment of partial onset seizures in adults and children 4 years of age and older with epilepsy Adjunctive therapy in treatment of myoclonic seizures in adults and adolescents 12 years of age and older with juvenile myoclonic epilepsy Adjunctive therapy in treatment of primary generalized tonic-clonic seizures in adults and children 6 years of age and older with idiopathic generalized epilepsy					
			Keppra XR	[M]	UCB	 Adjunctive therapy in treatment of partial onset seizures in patients at least 16 years of age with epilepsy 					

ARGENTUM Exhibit 1158

Argentum Pharmaceuticals LLC v. Research Corporation Technologies, Inc. IPR2016-00204



Compound	Approv	al Dates	Branded Name	Notes	Company	Approved Indications				
compound	Branded	Branded Generic		140103	company	Approved maleutoris				
Oxcarbazepine	1/14/2000	10/9/2007	Trileptal	[N]	Novartis	- Monotherapy or adjunctive therapy in treatment of partial seizures in adults - Monotherapy in treatment of partial seizures in children aged 4 years and above with epilepsy - Adjunctive therapy in children aged 2 years and above with epilepsy				
Zonisamide	3/27/2000	12/22/2005	Zonegran	[O]	Eisai	- Adjunctive therapy in treatment of partial seizures in adults with epilepsy				
Pregabalin	12/30/2004	7/3/2012	Lyrica	[P]	Pfizer	- Management of neuropathic pain associated with diabetic peripheral neuropathy - Management of postherpetic neuralgia - Adjunctive therapy for adult patients with partial onset seizures - Management of fibromyalgia - Management of neuropathic pain associated with spinal cord injury				
acosamide	10/28/2008	-	Vimpat	[Q]	UCB	Monotherapy or adjunctive therapy in patients with partial onset seizures Injection is indicated as short term replacement when oral administration is not feasible				
Rufinamide	11/14/2008	-	Banzel	[R]	Eisai	- Adjunctive treatment of seizures associated with Lennox-Gastaut syndrome in children 4 years and older and adults				
/igabatrin	8/21/2009	-	Sabril	[S]	Lundbeck	- Refractory complex partial seizures in adults as adjunctive therapy in patients who have responded inadequately to several alternative treatments				
zogabine	6/10/2011	-	Potiga	[T]	GlaxoSmithKline	- Adjunctive treatment of partial-onset seizures in patients aged 18 years and older				
² erampanel	10/22/2012	ı	Fycompa	[U]	Eisai	- Adjunctive therapy for treatment of partial-onset seizures with or without secondarily generalized seizures in patients with epilepsy aged 12 years and older				
Eslicarbazepine acetate	11/8/2013	-	Aptiom	[V]	Sunovion	- Adjunctive treatment of partial-onset seizures				

tes and sources:

2132: Vellturo Declaration, ¶ 14.

Ex. 1194: Pfizer Website, Dilantin Label, http://labeling.pfizer.com/showlabeling.aspx?id=544.

Ex. 1195: FDA Website, Tegretol Label, http://www.accessdata.fda.gov/drugsatfda_docs/label/2007/016608s098lbl.pdf.

Ex. 1195: FDA Website, Tegretol Label, http://www.accessdata.fda.gov/drugsatfda_docs/label/2007/016608s098lbl.pdf.

Ex. 1196: FDA Website, Depakote Label, http://www.accessdata.fda.gov/drugsatfda_docs/label/2009/018723s039lbl.pdf.

Ex. 1197: FDA Website, Depakote ER Label, http://www.accessdata.fda.gov/drugsatfda_docs/label/2006/18081s44,18082s27,18723s33,19680s22,20593s15,21168s14lbl.pdf.

Ex. 1198: FDA Website, Neurontin Label, http://www.accessdata.fda.gov/drugsatfda_docs/label/2010/020235s043lbl.pdf.

Ex. 1199: FDA Website, Lamictal Label, http://www.accessdata.fda.gov/drugsatfda_docs/label/2009/022251,020764s029,020241s036lbl.pdf.

Ex. 1200: FDA Website, Lamictal XR Label, http://www.accessdata.fda.gov/drugsatfda_docs/label/2011/022115s006lbl.pdf.

5x. 1201: FDA Website, Topamax Label, http://www.accessdata.fda.gov/drugsatfda_docs/label/2009/020505s038s039,020844s032s034lbl.pdf.

Ex. 1202: Trokendi XR Website, Trokendi XR Label, http://www.trokendixr.com/hcp/pdfs/trokendi-prescribing-information.pdf.

Ex. 1203: FDA Website, Qudexy XR Label, http://www.accessdata.fda.gov/drugsatfda_docs/label/2014/205122s000lbl.pdf.

Ex. 1204: FDA Website, Keppra Label, http://www.accessdata.fda.gov/drugsatfda_docs/label/2009/021035s078s080,021505s021s024lbl.pdf.

Ex. 1205: FDA Website, Keppra XR Label, http://www.accessdata.fda.gov/drugsatfda_docs/label/2009/022285s001lbl.pdf.

Ex. 1206: FDA Website, Trileptal Label, http://www.accessdata.fda.gov/drugsatfda_docs/label/2009/021014s026,021285s021lbl.pdf.

Ex. 1207: FDA Website, Zonegran Label, http://www.accessdata.fda.gov/drugsatfda_docs/label/2009/020789s022s025lbl.pdf.

Ex. 1208: Pfizer Website, Lyrica Label, http://labeling.pfizer.com/ShowLabeling.aspx?id=561#section-1.

Ex. 1166: Vimpat (lacosamide) Label, 10/28/2008.

Ex. 1167: Vimpat (lacosamide) Label, 8/29/2014.

Ex. 1209: FDA Website, Banzel label, http://www.accessdata.fda.gov/drugsatfda_docs/label/2010/021911s005lbl.pdf.

Ex. 1210: FDA Website, Sabril Label, http://www.accessdata.fda.gov/drugsatfda_docs/label/2009/020427s000lbl.pdf.

Ex. 1211: FDA Website, Potiga Label, http://www.accessdata.fda.gov/drugsatfda_docs/label/2011/022345s000lbl.pdf.

 $\underline{\text{Ex. }1212}\text{:} \ \text{FDA Website, Fycompa Label, http://www.accessdata.fda.gov/drugsatfda_docs/label/2012/202834lbl.pdf.}$

Ex. 1213: U.S. National Library of Medicine Website, Aptiom Label, http://dailymed.nlm.nih.gov/dailymed/drugInfo.cfm?setid=3d0c9554-eaeb-4694-8089-00133fcadce3.

DOCK A L A	vttachment B-2 'impat Net Sales		TRx in the Unit	ted States
Z) III	Year	Net Sales	TRx	
7	2009	\$	41.5	83,618
77	2010	\$	126.1	311,984
	2011	\$	217.9	502,258
nd	2012	\$	315.9	659,595
aut	2013	\$	407.0	819,692
her	2014	\$	443.5	972,567
ntic	2015	\$	568.3	171,842
Find authenticated	2016	\$	321.1	N/A
д со	Total	\$	2,441.3	3,521,556

otes and sources:

gures are in millions of \$U.S.

et sales are from Ex. 2174: Vimpat Sales Data, at 2.

et sales data are from May 2009 to June 2016.

Rx figures are from Ex. 2136: AED Market Basket, at 2.

015 TRx figures include only January - February.



ttachment B-3

resent Value of Vimpat Sales To Date

Description	Notes	2	2009	2010	2011	2012	2013	2014	2015	2016
Vimpat net sales	[A]	\$	41.5	\$ 126.1	\$ 217.9	\$ 315.9	\$ 407.0	\$ 443.5	\$ 568.3	\$ 321.1
Gross margin	[B]		85%	85%	85%	85%	85%	85%	85%	85%
Gross profit	[C]	\$	35.3	\$ 107.2	\$ 185.2	\$ 268.5	\$ 346.0	\$ 377.0	\$ 483.1	\$ 272.9
Operating margin	[D]		75%	75%	75%	75%	75%	75%	75%	75%
Operating profit	[E]	\$	31.1	\$ 94.6	\$ 163.4	\$ 236.9	\$ 305.3	\$ 332.6	\$ 426.2	\$ 240.8
Present value factor	[F]		0.970	0.896	0.811	0.734	0.664	0.601	0.544	0.505
Present value	[G]	\$	30.2	\$ 84.7	\$ 132.5	\$ 173.8	\$ 202.7	\$ 199.9	\$ 231.8	\$ 121.5
Cumulative total present value	[H]	\$	30.2	\$ 115.0	\$ 247.5	\$ 421.3	\$ 624.0	\$ 823.9	\$ 1,055.6	\$ 1,177.1

otes and sources:

gures are in millions of \$U.S.

A] Attachment B-2.

Net sales data are from May 2009 to June 2016.

- 3] Gross margin estimated to be 85% of net sales.
- $[] = [A] \times [B].$
-)] Operating margin estimated to be 75% of net sales.
- $[] = [A] \times [D].$
-] Present value factors use mid-period convention, discounting to Vimpat launch on 5/26/2009.
 - 2009 present value factor as of 9/12/2009 midway between Vimpat launch on 5/26/2009 and the end of the year.
 - Calculated using discount factor of 10.5%, consistent with academic literature (though a rate could reasonably be even higher).
 - 2016 Q2 present value factor as of 3/31/2016, midway between 12/31/2015 and 6/30/2016.
- $[5] = [E] \times [F].$
- 1] = Cumulative sum of [G].

arameters:

iscount factor for net present value et present value date (Vimpat launch)

10.5% 5/26/2009

D 0.5. Prescriptions Associat		na francisco Declaration	_								
	ed with Epilepsy indication	ins from Velituro Deciaration	1								
JCB-Defined AED Products	Branded / Generic	Compound	2007 Apr-Dec	2008	2009	2010	2011	2012	2013	2014	2015
Aptiom	Branded	Eslicarbazepine acetate	-	-	-	-	-	-	-	15,256	
Banzel	Branded	Rufinamide	-	-	39,144	68,765	82,660	86,421	94,994	101,361	
	Branded	Valproates	2,470,031	2,395,637	448,952	269,653	223,037	175,856	154,325	135,254	
Depakote	Generic	Valproates	205,136	694,528	1,725,242	1,831,481	1,844,192	1,856,602	1,943,080	2,012,149	
	Branded	Valproates	1,623,762	2,206,333	702,096	293,430	194,348	129,523	109,024	105,535	
Depakote-ER	Generic	Valproates	-	1,138	731,946	940,794	984,487	1,005,827	1,046,793	1,052,987	
	Branded	Phenytoin	1,324,361	1,537,122	1,336,084	1,174,912	1,021,795	889,813	652,827	552,610	
Dilantin	Generic	Phenytoin	2,909,752	3,737,603	3,550,487	3,370,705	3,166,627	3,013,269	2,974,633	2,804,935	
vcompa	Branded	Perampanel	-	-	-	-	-	-	-	19,424	
•	Branded	Levetiracetam	2,749,793	4,074,242	1,121,857	576,284	465,305	368,463	320,220	283,468	
Keppra-IR	Generic	Levetiracetam	-	267,524	3,328,124	4,453,067	5,222,054	5,912,051	6,624,941	7,307,462	
	Branded	Levetiracetam	-	14,067	256,602	359,398	331,010	160,311	128,222	111,875	
Keppra-XR	Generic	Levetiracetam	_		-	-	39,886	198,317	258,302	322,889	
	Branded	Lamotrigine	2,373,167	2,479,221	588,461	381,784	312,756	244,612	209,236	178,573	
amictal	Generic	Lamotrigine	19,927	539,815	1,553,933	1,728,706	1,843,963	1,965,404	2,131,576	2,261,356	
amictal-XR	Branded	Lamotrigine	-	-	20,380	117,584	170,440	192,617	115,759	87,405	
	Generic	Lamotrigine	_	_	-	-	-	-	128,375	215,518	
vrica	Branded	Pregabalin	246,397	391,579	366,580	345,640	341,382	328,105	340,588	357,764	-
•	Branded	Gabapentin	49,981	55,485	49,250	44,028	32,259	24,029	19,436	15,812	
Neurontin	Generic	Gabapentin	562,477	820,089	940,047	1,082,478	1,226,612	1,422,914	1,619,137	1,871,447	-
Potica	Branded	Ezogabine	-	-	-	-	-	5,387	13,106	7,529	
-	Branded	Vigabatrin	_	_	2,737	16,342	29,440	22,102	20,149	30,313	
Aptiom Banzel Depakote Depakote-ER Dilantin	Branded	Carbamazepine	206,490	236,952	206,133	178,669	155,180	121,753	99,858	91,794	
[egretol	Generic		1,301,915	1,702,783	1,676,449	1,667,926	1,630,542	1,684,848	1,680,420	1,649,924	—
	Branded	Carbamazepine Carbamazepine	562,053	723,866	537,347	335,087	283,718	252.487	233,880	219,630	-
Depakote Depakote-ER Dilantin Fycompa Geppra-IR Geppra-XR Lamictal Lamictal-XR Lyrica Neurontin Potiga Sabril Fegretol Fegretol-XR Fopamax	Generic	<u> </u>	372,682	480,747	613,506	748,133	743,947	748,138	767,258	773,736	
		Carbamazepine	2,354,454	3,237,126	1,192,570	249,746	187,730	147,848	125,112	102,315	
Горатах	Branded	Topiramate	2,354,454		1,071,073	1,636,330	1,722,786	1,841,658	2,041,510	2,204,980	
Frakandi VD	Generic	Topiramate	-	-	1,071,073	1,030,330	1,122,100	1,041,050	4,707	50,579	
rokenai XK	Branded	Topiramate	1 411 220		403,223	257,885	252,302	267,653	153,252	116,092	
[rileptal	Branded	Oxcarbazepine	1,411,228	524,118	992,830	1,096,995	1,111,644	1,112,126	1,249,954	1,340,245	
5 t-l 1000/	Generic	Oxcarbazepine	145,356	918,225	83,618	311,984	502,258	659,595	819,692	972,567	-
/impat - taken as 100%	Branded	Lacosamide	- 50 640	- 64 205	56,735	52,124	46,267	38,817	33,858	30,094	
Zonegran	Branded	Zonisamide	58,649	64,295				·			
	Generic	Zonisamide	369,345	514,869	550,185	571,663	596,219	624,816	682,748	741,854	
•	Branded	Topiramate	-	-	-	-	-	-	-	1,105	<u> </u>
· ,	Branded	Topiramate	-	-	-	-	-	-	-	82	<u> </u>
	Branded	Lamotrigine	-	-	-	-	-	-	-	-	<u> </u>
·	Branded	Gabapentin	-	-	-	-	-	-	-	-	Щ.
			15,430,365	17,940,043	7,411,770	5,033,316	4,631,887	4,115,391	3,648,244	3,586,436	
_			5,886,590	9,677,322	16,733,822 24,145,592	19,128,279	20,132,957	21,385,970	23,148,726	24,559,484	
Grand total		I .	21,316,955	27,617,365		24,161,595	24,764,843	25,501,361	26,796,970	28,145,920	

tes and sources:

2136: AED Market Yearly TRx Volume & Market Share - April 2007 – February 2015, at 2.

Note in source indicates, "Factors have been applied to all products with AED indication." mpounds per Attachment B-1.

DOCKET A L A R M

Explore Litigation Insights



Docket Alarm provides insights to develop a more informed litigation strategy and the peace of mind of knowing you're on top of things.

Real-Time Litigation Alerts



Keep your litigation team up-to-date with **real-time** alerts and advanced team management tools built for the enterprise, all while greatly reducing PACER spend.

Our comprehensive service means we can handle Federal, State, and Administrative courts across the country.

Advanced Docket Research



With over 230 million records, Docket Alarm's cloud-native docket research platform finds what other services can't. Coverage includes Federal, State, plus PTAB, TTAB, ITC and NLRB decisions, all in one place.

Identify arguments that have been successful in the past with full text, pinpoint searching. Link to case law cited within any court document via Fastcase.

Analytics At Your Fingertips



Learn what happened the last time a particular judge, opposing counsel or company faced cases similar to yours.

Advanced out-of-the-box PTAB and TTAB analytics are always at your fingertips.

API

Docket Alarm offers a powerful API (application programming interface) to developers that want to integrate case filings into their apps.

LAW FIRMS

Build custom dashboards for your attorneys and clients with live data direct from the court.

Automate many repetitive legal tasks like conflict checks, document management, and marketing.

FINANCIAL INSTITUTIONS

Litigation and bankruptcy checks for companies and debtors.

E-DISCOVERY AND LEGAL VENDORS

Sync your system to PACER to automate legal marketing.

