

PharmNotes

Summary about new FDA-approved products, new indications, first-time generics, and WHAT IS IN THE PIPELINE.

From: MAY 2019

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Drug/ Manufacturer		Therap Class	eutic		Indicatio	ons			Date	Comme	nts 📲					
(2)		4	51 (A)	-	2			1	-	S 2	-	3	-		1	
Dengvaxia™ (dengue		Vaccine			For the pre				05/0 <mark>1</mark> /2019	DOSAGE A		INISTRATIO	ON 🖕			
tetravalent vaccine,	live)				disease cau							vaccinatio			e doses ((0.5
Injection, for					serotypes 1					each) 6 m	onths <mark>a</mark> pa	rt (at mont	h 0, <mark>6</mark> , an	d 12).		
subcutaneous use /					use in indiv		-									
Sanofi Pasteur, Inc.					years of age						-	ID STRENG				
					confirmed p		-					tion (0.5 m				
					infection ar	nd living i	n endemic			powder to	be recon	stituted wi	th the sup	oplied dilu	ient.	
					areas.											
										CONTRAIN						
					Limitations							ere allergic				ot
						proved fo				-		o any com		Dengvaxi	a™.	
						•	reviously			 Immur 	nocompro	mised indi	viduals			
							dengue virus	S								
							vhom this					RECAUTION				
							hknown. The					reviously i				
					•	ed risk fo	fected are a	at -				f severe de				
						disease						n Dengvaxia s serotype.		bsequent	mection	wi
					0		ubsequently				0	-cleared te		a ta data	rmino a	
							ngue virus.	y				e infection.		e to deter	iiiiie a	
							infection ca	an		previo	us uengu	e intection.				
							ugh a medi			ADVERSE	REACTIO	us.				
						of a previ		cui				rse reactio	ns: heada	che iniec	tion site i	nai
							rmed dengu	ie				nd myalgia.		iene, injec		pun
						n or thro				manaise, a		ia myaigia.				
							ng prior to			DRUG INT	ERACTIO	vs				
					vaccina					False r	legative t	uberculin p	urified pr	otein deri	vative (Pl	PD)
					The safe	ety and e	ffectiveness	of			-	occur with	•		-	-
						•	stablished in				engvaxia [*]				1	
					individu	als living	in dengue				0					
							eas who trav	/el*								
					to deng	ue ender	nic areas.									

Drug/ Manuf	facture	r	Thera Class	peutic	Indi	cations			Date	Comments	
	el™ (tafan ine) Capsı		Cardiova agent;	ascular		ment of the d type or he		oathy	05/03/2019	DOSAGE AND ADMINISTRATION The recommended dose is either:	ł
Vyndam	ax™ (tafa s, for oral	midi <mark>s</mark>)	Transthy stabilize		transt amylo	hyretin-mec idosis in adı ivascular mc	liated ults to redu	ce		 Vyndaqel™ 80 mg orally once daily, or Vyndamax[™] mg orally once daily 	
i nzer m				rphan drug	cardio	wascular-rel				Vyndaqel [™] and Vyndamax [™] are not substitutable on a per	mį
			designat		nospi	alization				basis.	
										DOSAGE FORMS AND STRENGTHS	
										Capsules: Tafamidis meglumine 20 mg and tafamidis 61 mg.	
										CONTRAINDICATIONS	
										None.	
										ADVERSE REACTIONS	
										Because clinical trials are conducted under widely varying	
										conditions, adverse reaction rates observed in the clinical tria	ls
										of a drug cannot be directly compared to rates in the clinical	*
										trials of another drug and may not reflect the rates observed practice.	In
										practice.	
										DRUG INTERACTIONS	
										BCRP Substrates: Tafamidis inhibits breast cancer resistar	nt
										protein (BCRP) in vitro and may increase exposure of	
										substrates of this transporter (e.g., methotrexate,	
										rosuvastatin, imatinib) following Vyndaqel™ 80 mg or	
										Vyndamax [™] 61 mg. Dose adjustment may be needed for	
										these substrates.	
		8.									
										n h or no n	/
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Drug/ Manufae	cturer		Thera Class	apeutic		Indication	าร		Date	• (Comment	s					
Vyndaqel™ meglumine Vyndamax` Capsules, fi Pfizer Inc.	e) Capsule ™ (tafami	es and dis)	agent; Transth stabiliz		Iσ	Treatment o of wild type transthyretir amyloidosis cardiovascul cardiovascul	or here n-media in adult ar mort	ditary ited is to reduce ality and	05/03/2019	l • •	Females	e <mark>y:</mark> Based of reproc <u>:</u> Advise and prev	on anim luctive po not to br	al studies otential: eastfeed.	Consider	se fetal ha pregnancy luctive	
(continuatio	on)		designa			hospitalizati				•	Pediatric establish	<u>use:</u> Saf ed in peo	liatric pat	ients.			rlu
											patients			ujustmen	t is require		riy .
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		80)															-
														nh	arn	nini	1

Drug/ Manuf	facturer		Thera Class	peutic	Indicatio	ons		Date	Comments
Piqray™	(alpelisib)		Antineo	oplastic	In combina	tion with	fulvestrant,	05/24/2019	DOSAGE AND ADMINISTRATION
	for oral us	e /	agent; k		for the trea	itment of	f post-		The recommended dose is 300 mg (two 150 mg tablets) take
	Pharmace	uticals	inhibito	or 🖕	menopausa				orally once daily with food.
Corporat	tion				with hormo	•			
					•		dermal growth		For adverse reactions, consider dose interruption, dos
							ER2)-negative,		reduction, or discontinuation.
					PIK3CA-mu metastatic				DOSAGE FORMS AND STRENGTHS
							approved test		Tablets: 50 mg, 150 mg, 200 mg.
							on on or after		Tablets. 50 mg, 150 mg, 200 mg.
					an endocri				CONTRAINDICATIONS
							•		Severe hypersensitivity to PIQRAY or to any of its
									components.
									WARNINGS AND PRECAUTIONS
									Severe hypersensitivity: Permanently discontinue. Promptly
									initiate appropriate treatment.
									Severe cutaneous reactions: Cases of severe cutaneous
									reactions, including Stevens-Johnson syndrome (SJS) and Erythema Multiforme (EM) were reported. Do not initiate
									treatment in patients with a history of SJS, EM, or Toxic
									Epidermal Necrolysis (TEN). Interrupt if signs or symptoms of
									severe cutaneous reactions are present, until etiology of the
									reaction has been determined. Consider consultation with a
									dermatologist. Permanently discontinue if SJS, EM, or TEN is
									confirmed.
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									pharmolX
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Drug/ Manuf	acturer	r _	Thera Class	peutic	Indicatio	ons			Date	Co	ommer	nts -					
Piqray™ ((alnelisib)		Antineo	nlastic	In combina	tion with	fulvestran	t	05/24/2019	WA			ECAUTION	S (continu	uation)		
Tablets, f			agent; k	•	for the trea			-,	00/ = ./ =010				Severe hyp	•	-	ing	
Novartis			inhibito		menopaus		•						s reported				tient
Corporat					with horm								ncontrolle				
					positive, h	•		wth					ore initiatir				
(continua	tion)				factor rece								and optim				
(00110100	,				PIK3CA-mu						-		tor period		-		-
					metastatic								edications				
					detected b			test					discontinu				
					following p					•			vere cases				
					an endocri								e been rep				ciai
					*	*	•				-		liological c				inue
													itis occurs	-	iterrupt o		mac
													cases of c		ncluding o	lehvdrati	on
													injury, ha				
													hea (Grade				
													antidiarrhe				
											•		nealthcare				nuiu
													e dose, or o				2
											occurs.	n, reuuce	uuse, or u		e li sever		a
										· .		-fotal to	<u>kicity:</u> Can	cause fet	albarm A	dvice nat	tiont
													to a fetus a				
													Full Presc				
													d contrace	-		or invest	lan
											ior preg	inancy an		-puon mit			
											VFRSF R	EACTION	s				
													se reactio	ns [,] glucos	e increase	ed creati	inine
													rash, lymp	-			
													LT increas				
													reased, de				5
												•	creased, ca		•••		''
													longed, an			acosc	
										uet	i cuscu,	ur ri più	iongeu, an	a alopecia			

Drug/ Manuf	acturer		Thera Class	apeutic	Indicatio	ns		- [Date	Comments
Tablets,	(alpelisib) for oral us Pharmaco ion	se /	Antine agent; inhibito		In combinat for the trea menopausa with hormo	tment of I women	, and men,	C	05/24/2019	 DRUG INTERACTIONS <u>CYP3A4 Inducers</u>: Avoid co-administration with a strong CYP3A4 inducer. <u>BCRP Inhibitors</u>: Avoid the use of BCRP inhibitors in patients
(continua	ation)				factor recep	otor 2 (HI	dermal growtl ER2)-negative			treated with Piqray™. If unable to use alternative drugs, closely monitor for increased adverse reactions.
					PIK3CA-mut metastatic l	oreast ca	ncer as			 <u>CYP2C9 Substrates:</u> Closely monitor when co-administered with CYP2C9 substrates where decreases in the plasma
						rogressio	approved test n on or after			concentration of these drugs may reduce activity. USE IN SPECIFIC POPULATIONS
						e-baseu	regimen			 <u>Pregnancy:</u> Can cause fetal harm. Verify the pregnancy status in females of reproductive potential prior to initiating.
										 <u>Females and males of reproductive potential</u>. Advise females of reproductive potential, and male patients with
										female partners of reproductive potential, to use effective contraception during treatment and for 1 week after the last
										dose. <u>Lactation:</u> Advise not to breastfeed.
										Pediatric use: Safety and efficacy in pediatric patients have not been established.
										 <u>Geriatric use:</u> No overall differences in effectiveness were observed between patients ≥ 65 years of age compared to younger patients. There are an insufficient number of
										patients \geq 75 years of age to assess whether there are differences in safety or effectiveness.
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										pharmpix

Drug/ Manufa	cturer		Therapeutic Class	Indicati	ons		Date	Comments
Zolgensma	тм		Gene therapy	Treatment	of pediat	ric patients	05/24/2019	DOSAGE AND ADMINISTRATION
(onasemno	-					age with spinal		The recommended dose is 1.1×1014 vector genomes (vg) per kg
abeparvov			Note: Orphan drug			MA) with bi-		of body weight.
Suspensior			designation			the survival		
Intravenou				motor neu	ron 1 (SN	IN1) gene		Starting one day prior to Zolgensma™ infusion, administe
Novartis Pl		iticals		11				systemic corticosteroids equivalent to oral prednisolone at
Corporatio	'n			Limitation				mg/kg of body weight per day for a total of 30 days. At the end of the 30 day period of systemic corticosteroid treatment, chec
						ffectiveness of ration of have		liver function by clinical examination and by laboratory testing
					en evalua			For patients with unremarkable findings, taper the corticosteroi
					e in patie			dose over the next 28 days. If liver function abnormalitie
						e.g. complete		persist, continue systemic corticosteroids (equivalent to ora
						s, permanent		prednisolone at 1 mg/kg/day) until findings becom
						idence) has		unremarkable, and then taper the corticosteroid dose over th
				not be	en evalua	ted.		next 28 days. Consult expert(s) if patients do not respon-
								adequately to the equivalent of 1 mg/kg/day oral prednisolone.
								DOSAGE FORMS AND STRENGTHS
								Zolgensma [™] is a suspension for intravenous infusion, supplied a
								single-use vials; Zolgensma™ is provided in a kit containing 2 to 9
								vials, as a combination of 2 vial fill volumes (either 5.5 mL or 8.3
								mL); All vials have a nominal concentration of 2.0 × 10^13 vector
								genomes (vg) per mL; Each vial of Zolgensma™ contains an
								extractable volume of not less than either 5.5 mL or 8.3 mL.
								CONTRAINDICATIONS
								None.
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								pharmoix

Drug/ Manufa	acturer		Thera Class	peutic	Indicat	tions		Date	Con	nments					
Zolgensm		÷	Gene th	ierapy			tric patients	05/24/20		NINGS AND P					
(onasemr							age with spir			hrombocytop					
abeparvo				rphan drug			SMA) with bi-			olgensma™_in					
Suspensio Intraveno		on /	designa	tion		euron 1 (SN	the survival			nen every othe latelet counts			d and thir	a month	untii
Novartis I					motorine		(INT) gene			evated Tropo			nin-I hefo	re Zolgen	sma™
Corporati		cuticals			Limitatio	n of Use:				fusion, and w					
							effectiveness	of		or the second					
(continua ⁻	tion)						ration of hav			baseline.			•		
						een evalua									
						use in patie				RSE REACTIO					
							e.g. complet			common adv	erse reactio	ns: elevat	ed amino	transfera	ses
							s, permanen	t	and v	omiting.					
							ndence) has								
					not h	ann avalua	tod					•			
					not b	een evalua	ited.			N SPECIFIC PC			natos hof	oro roach	ing
					not b	een evalua	ited.		• <u>P</u>	ediatric use: l	Jse in prema	ature neo			
					not b	een evalua	ited.		• <u>P</u>	ediatric use: U Ill term gestat	Jse in prema ional age is	ature neo not recor	nmended	because	-
					not b	een evalua	ited.		• <u>Pr</u> fu	ediatric use: l	Jse in prema ional age is eatment wit	ature neo not recor h corticos	nmended steroids m	because hay adver	-
					not b	een evalua	ited.		• <u>P</u> i fu co at	ediatric use: U Ill term gestat oncomitant tr	Jse in prema ional age is eatment wit ical develop	ature neo not recor h corticos	nmended steroids m	because hay adver	-
(*) (*)	ن بر س	4 4 1		4 4 8	not b	een evalua	ited.		• <u>P</u> i fu co at	ediatric use: U Ill term gestat oncomitant tro ffect neurolog	Jse in prema ional age is eatment wit ical develop	ature neo not recor h corticos	nmended steroids m	because hay adver	-
	•	- 		•	not b	een evalua	ited.	· ·	• <u>P</u> i fu co at	ediatric use: U Ill term gestat oncomitant tro ffect neurolog	Jse in prema ional age is eatment wit ical develop	ature neo not recor h corticos	nmended steroids m	because hay adver	-
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Drug/ Manufa	cturer	Therapeutic class	Indications	Date	Comments
Tibsovo™	(ivosidenib)	Antineoplastic	Previous indication(s):	05/02/2019	Tibsovo™ received initial FDA approval in July 2018 for adult
Tablets / A	Agios	agent; Isocitrate	Treatment of patients with		patients with R/R AML and an IDH1 mutation.
Pharmace	uticals, Inc.	dehydrogenase-1	relapsed or refractory (R/R) acute		
		(IDH1) inhibitor	myeloid leukemia (AML) who have		The approval is based on results from a clinical trial that included 28
			an IDH1 mutation		adult patients (median age: 77 years; range: 64-87)) with newly diagnosed AML with an IDH1 mutation who were assigned to
			New indication: To include adult patients with		receive a 500 mg daily dose. The primary endpoint is the combined complete remission (CR) and complete remission with partia
			newly diagnosed AML with a susceptible IDH1 mutation as		hematologic improvement (CRh) rate. CRh is defined as <5% o blasts in the bone marrow, no evidence of disease and partia
			detected by an FDA-approved test who are \geq 75 years old or who		recovery of peripheral blood counts (platelets >50,000/microlite and ANC >500/microliter). Result showed a CR+CRh rate of 42.99
			have comorbidities that preclude		(95% CI: 24.5, 62.8). The CR rate was 28.6% (95% CI 13.2, 48.7) and
			use of intensive induction		the CRh rate was 14.3% (95% CI 4.0, 32.7).
			chemotherapy		
Kadcyla™		Antineoplastic	Previous indication(s):	05/03/2019	The approval is based on results from a study showing Kadcyla™
trastuzum emtansine	ab e) Injection /	agent; HER2- targeted	Treatment of patients with HER2- positive, late-stage (metastatic)		significantly reduced the risk of invasive breast cancer recurrence o death from any cause (invasive disease-free survival; iDFS) by 50%
Genentech	n, Inc. 🚬	ant <mark>i</mark> body	breast cancer		(HR=0.50, 95% CI 0.39-0.64, p<0.0001) compared to Herceptin™ a
					an adjuvant treatment in people with HER2-positive EBC who have
			New indication:	-	residual invasive disease after neoadjuvant taxane and Herceptin
			For adjuvant (after surgery)		based treatment. At three years, 88.3% of people treated with
			treatment of people with HER2-		Kadcyla™ did not have their breast cancer return compared to
			positive early breast cancer who		77.0% treated with Herceptin™, an absolute improvement of 11.3%
			have residual invasive disease		
			after neoadjuvant (before surgery)		
			taxane and Herceptin™		
	e e		(trastuzumab)-based treatment		
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Drug/ Manu	/ Ifacturer		Therap class	peutic	Indica	ations			Date		Comn	nents	-					
	™ otriene) Foar Pharma US		Dermato agent; Antipsor	-			ntion(s): ent of plaque	2	05/06	/2019	-				*		-	
			vitainin	Duning	To inclu	ude adol	tion altered: escent paties and older											
A) Injec	tulinumtoxi tion / Merz		Musculo agent; Neuromu blocker;		Treatm blepha	rospasm	ntion(s): ervical dyston (previously nabotulinumt		5/10/2	2019	treatme with a	ent-naïv baseline	e patient Jankovio	s who ha	ad a diag Scale (JRS	nosis of 5) Severit	n a total blepharo y sub-sco neasure se	spasn re ≥2
Filai iiia				m toxin			es, upper lim				and fr					ents we	ere defin	ed a
			type A			ity, and e	excessive dro	ooling							onths had			
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Dru Ma	ug/ Inufacturer		Therape class	utic	Indications	Date		Com	ments						
Cyra	amza™ ⊻		Antineopla	stic	Previous indication(s):	- 5/10/2	2019	The a	pproval v	vas basec	l on the r	esults fro	om a stud	ly of Cyra	mza™
(ran	nucirumab)		agent; Vaso	cular	Treatment of advanced or			comp	ared to p	lacebo in	patients	with HCC	who hav	ve been tr	eated
Inje	ction / Eli Lilly a	and	endothelial	*	metastatic gastric cancer or			with s	sorafenib	and are A	FP-High (AFP ≥400	ng/mL), v	were Cyra	mza™
Con	npany		growth fact	tor	gastro-esophageal junction			show	ed a stati	stically sig	gnificant b	penefit in	the prima	ary endpo	oint of
			receptor 2		adenocarcinoma with disease			overa	ll surviva	(OS) and	in t <mark>he se</mark>	condary (endpoint	of progre	ssion-
			(VEGFR2)		progression on or after prior			free s	urvival (P	FS).					
			antagonist		fluoropyrimidine- or platinum-										
					containing chemotherapy;										
					metastatic non-small cell lung										
					cancer with disease progression										
					on or after platinum-based										
					chemotherapy; metastatic										
					colorectal cancer with disease										
					progression on or after prior										
					therapy with bevacizumab,										
					oxaliplatin, and a fluoropyrimidine										
					New indication:										
					Treatment of hepatocellular										
					carcinoma in patients who have										
					an alpha fetoprotein of ≥400										
					ng/mL and have been treated with										
					sorafenib										
	TH ((11)			*		05 /40	12010								•••
-	a™ (aflibercept	-	Ophthalmo	-	Previous indication(s):	05/13	/2019							n patients	
-	ction / Regene		agent; VEG	F	Treatment of neovascular age-									etic retino	
Pha	rmaceuticals, II	nc.	inhibitor		related macular degeneration,									ry endpoir	
					macular edema following retinal									t one year	
					vein occlusion, diabetic macular									- and eve	
					edema									tep or g	
		•												opathy Se	
					New indication:									sham inje	
					Treatment of diabetic retinopathy									dpoints,	
														ea™ also s	
			1	*								-	complic	ations a	nd in
								devel	opment c	f diabetic	macular	edema.			

Drug/ Manufacturer	Therapeutic class	Indications	Date	Comments											
Bavencio™ (avelumab) Injection / EMD Serono, Inc.	Antineoplastic agent; Programmed death ligand-1	Previous indication(s): Treatment of metastatic Merkel cell carcinoma (MCC) and advanced or metastatic urothelial	05/14/2019	combination regimen for patients with advanced RCC. The approval was based on results from a study in which											
	(PD-L1) blocking antibody	carcinoma		combination significantly improved median progression- survival (PFS) compared with sunitinib by more than five mor											
		New indication: In combination with axitinib		(HR: 0.69; 95% CI: 0.56–0.84; 2-sided p-value=0.0002).											
		(Inlyta) ™ for the first-line treatment of advanced renal cell carcinoma (RCC)													
Venclexta™	Antineoplastic	Previous indication(s):	05/15/2019	This approval was based on results from a study that demonstra	ted										
(venetoclax) Tablets / AbbVie Inc.	agent; B-cell lymphoma-2	Treatment of previously treated chronic lymphocytic leukemia		superior progression-free survival (PFS) in patients treated v Venclexta ™plus obinutuzumab compared to patients who recei											
	(BCL-2) inhibitor	(CLL) or small lymphocytic lymphoma (SLL), and newly		chlorambucil plus obinutuzumab, a commonly used standard care. Venclexta™ plus obinutuzumab reduced the risk	l of										
· · ·	3 E	diagnosed acute myeloid leukemia (AML) in adults who are age 75		progression or death by 67% compared with chlorambucil poinutuzumab (HR: 0.33, 95% CI: 0.22, 0.51; p<0.0001).	olus										
		years or older, or who have comorbidities that preclude use of													
		intensive induction chemotherapy													
		New indication: Treatment of previously untreated CLL or SLL													
Gattex™ (teduglutide)	Gastrointestinal	Previous indication(s):	05/16/2019	· · · · · · · · · · ·											
for Injection / NPS	agent	Treatment of short bowel syndrome													
Pharmaceuticals, Inc.															
•		Patient population altered:													
•		Patient population altered: To include pediatric patients 1 year of age and older		nharmai											

Drug/ Manufacturer		Therapeutic class	Indications	Date		Com	ments						
Fragmin™ (daltepari sodium) Injection		Anticoagulant; .ow molecular	Previous indication(s): Prophylaxis of ischemic	-05/16/	2019	-*.			4		-	×	÷
		veight heparin LMWH)	complications of unstable angina and non-Q-wave myocardial										
			infarction; Prophylaxis of DVT in abdominal surgery, hip										
			replacement surgery or medical patients with severely restricted										
			mobility during acute illness; Extended treatment of										
			symptomatic VTE to reduce the recurrence in adult patients with										
			cancer										
			Patient population altered: To include pediatric patients one month of age and older										
Jakafi™ (ruxolitinib)		Antineoplastic	Previous indication(s):	05/24/	2019			first and	only Fl	DA-approv	ed treat	ment for	this
Tablets / Incyte Corporation		igent; Janus inase (JAK)	Treatment of intermediate or high-risk myelofibrosis, including			i <mark>ndicat</mark>							
	i i	nhibitor	primary myelofibrosis, post- polycythemia vera myelofibrosis			combir	nation wit	h corticos	teroids i	esults from n patients	with ste	roid-refra	ctory
			and post-essential thrombocythemia myelofibrosis in			upon [Day 28 ov	verall resp	onse ra	cy of Jakafi te (ORR).	The Day	28 ORR	in 49
			adults; polycythemia vera in adults who have had an inadequate response to or are					ory to ste te of 31%.		lone was	57%, wit	th a com	plete
			intolerant of hydroxyurea										
			New indication: Treatment of steroid-refractory										
			acute graft-versus-host disease in adult and pediatric patients 12							nha	arra		
			years and older									η μ	

Drug/ Manufactu	rer 👘	Therapeu class	utic	Indications	Date	Cor	nments									
Vraylar™ (carip Capsules / Alle plc	-	Central nerve system agen Antipsychoti Dopamine D	nt; ic;)3/D2	Previous indication(s): Treatment of schizophrenia, and manic or mixed episodes associated with bipolar I disorder	05/24/2019	carip the	This approval was based on results from three studies in wh cariprazine demonstrated greater improvement than placebo the change from baseline to week six on the Montgomery Asb Depression Rating scale (MADRS) total score.									
	receptor parti agonist			New indication:												
				Treatment of depressive episoder associated with bipolar I disorder												
Revlimid™ (lenalidomide) Capsules / Celg Corporation		Immunologio agent; Immu modulator	ine	Previous indication(s): Treatment of multiple myeloma (MM), in combination with dexamethasone; MM, following	05/28/2019	patie	is the first ents with .) that does	these inc	dolent fo	orms of no		0				
				autologous hematopoietic stem cell transplantation; Transfusion-			approval onstrated									
				dependent anemia due to low- or intermediate-1-risk		end	ooint of pi months fo	ogressior	n-free su	rvival (PFS	5). The m	nedian PF	S was			
	×			myelodysplastic syndromes (MDS associated with a deletion 5q	5)	mon	ths for pat .34-0.62; p	ients trea	ated with							
				abnormality with or without additional cytogenetic				-								
				abnormalities; Mantle cell lymphoma (MCL) whose disease												
				has relapsed or progressed after two prior therapies												
				New indication:												
				In combination with rituximab for the treatment of previously	r N T											
	•			treated follicular lymphoma (FL) or marginal zone lymphoma (MZI	L)											
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										pn	an		X			

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EARS

New FDA Approved Formulations, Dosage Forms, Combination Products and Other Differences

Dru Ma	ıg/ nufacturer		Therapeu clas <mark>s</mark>	tic	Indic	ations		Date	C	omment	5	-				
(dap met hydi saxa Rele	Qternmet XR™ (dapagliflozin, metformin hydrochloride and saxagliptin) Extended- Release Tablets, for oral use / AstraZeneca		iodium-gluce cotransporte SGLT2) inhit biguanide an lipeptidyl beptidase-4 I) inhibitor combination	er 2 bitor, Id (DPP-	exercis glycem	e, to imp ic contro pe 2 diab	l in adults	05/02/2019	19 Li •	mellitus o		oe 1 diabetes				
(ami Tabl Jaco Phai	urgi™ ifampridine) ets, for oral use / bus rmaceutical ipany Inc.	b N	Potassium ch blocker Note: Orphan lesignation		Eaton ((LEMS)	,	nic syndrome nts 6 to less	05/06/20	p A Fi	atients with mifampridin	LEMS. e was al	so recent	ly FDA-a	pproved	under the	for pediatric brand name adult patients
(mid	zilam™ lazolam) Nasal ıy / UCB, Inc.	- N	Benzodiazep Note: Schedu controlled		interm episod		ereotypic Juent seizure	05/17/20	N	his is the firs 1idazolam w yrup. Howev	as alread	Iy availab	le in the	market a	as an injec	tion and ora
			ubstance		cluster seizure from a	s, acute r s) that ar patient's	epetitive e distinct usual		•	Injectable sedation/a	mida nxiolysis	azolam s/amnesia	is ii a; induo	ndicated	for general	preoperative anesthesia y ventilated
						oilepsy 12	in patients 2 years of		•	Oral mida sedation/a						perioperative or procedura
_										sedation.						~
														nh	arr	

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APARS

New First Time Generic Drug Approval

Drug	/Manu	facture	er 👘		Therap	eutic C	lass		Ē	ate		Со	mment	S			
		ydrochlor armaceut	ide Table ical, Inc.	ets	Endocrin Metaboli		tabolic ag r	ent;	0	5/10/2019		Ger	ieric for: k	(uvan			
(base)/		L00 mg (b	tion 50 m ase)/vial		Antifunga	al 🚬			. 0	5/17 <mark>/</mark> 2019		. Ger	eric for: N	Mycamin	e .		
Sildena	fil Citrate	e for Oral	Suspensio Im Pharm		Cardiova agent	scular age	ent; Antihy	pertensiv	ve 0	5/31/2019		Ger	ieric for: F	Revatio f	or Oral Su	spension	
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PIPELINE.....

Drug	/Manu	facture	r	Date		Indica	tions		Com	nments						Impa	act
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										ion anno edoic aci		FDA acco	eptance	of the	NDA for		
	(amoxicill			05/07/2	201 <mark>9</mark>	Treatme									utin and	Mode	rate .
	^a butin) Ca arma Ltd.	psules / F	RedHill			Helicoba Infectior	acter pylo	ri							a proton tment of		
ыорпа						Intection				obacter p			inen to	the trea	tinent of		
									RedH	ill Biopha	rma subn	nitted an	NDA for T	alicia.			
	(ethinyl es orgestrel) 1			05/17/2	2019	Treatme Contrace									ormonal of birth	Mode	rate
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