

PharmNotes

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

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NEWS.....

Drug Issue	Date	News/Event
FDA takes action	03/19/2019	The FDA posted a warning letter to Nutra Pharma Corp. for illegally marketing unapproved products labeled as homeopath
against marketer of unapproved products		with claims about their ability to treat addiction and chronic pain, including pain associated with cancer, diabetes, shingle fibromyalgia and other serious conditions.
claiming to treat addiction, chronic		The FDA issued a warning letter to Nutra Pharma for their products: "Nyloxin Oral Spray," "Nyloxin Topical Gel," "Nylox
pain and other serious conditions		Topical Roll-On," "Nyloxin Topical Roll-On ES," "Nyloxin Professional Size Pump Topical Gel" and "Regular Strength Samp Pack.". These products also may confuse consumers because its name is similar to FDA-approved drugs.
		The warning letter is available at: https://www.fda.gov/ICECI/EnforcementActions/WarningLetters/ucm633800.htm?utm_campaign=FDA%20takes%20action%
		20against%20marketer%20of%20unapproved%20products%20claiming%20to%20tre&utm_medium=email&utm_source=Ele gua
UPDATE on	03/20/2019	To ensure patient access to losartan, FDA will not object to certain manufacturers temporarily distributing losartan containin
angiotensin II. receptor blocker		N-Nitroso-N-methyl-4-aminobutyric acid (NMBA) above the interim acceptable intake limit of 0.96 parts per million (ppr and below 9.82 ppm until the impurity can be eliminated.
(ARB) recalls:		For more details regarding this issue, please visit:
(*) <u>*</u>		https://www.fda.gov/Drugs/DrugSafety/ucm613916.htm?utm_campaign=Update%20on%20ARB%20recall%3A%20FDA%20 ot%20objecting%20to%20losartan%20with%20NMBA%20below%209.82%20ppm&utm_medium=email&utm_source=Eloqu
Venclext™a (venetoclax): Risks	03/22/2019	The FDA is alerting health care professionals, oncology clinical investigators and patients about the risks associated with the investigational use of Venclexta [™] for the treatment of patients with multiple myeloma based on data from a clinical trial.
Associated with the Investigational Use of		note, Venclexta™ is not approved for the treatment of multiple myeloma.
Venclexta in Multiple Myeloma		The FDA reviewed data from the BELLINI clinical trial evaluating the use of Venclexta™ combined with bortezomib, proteasome inhibitor, and dexamethasone in patients with multiple myeloma. The interim trial results demonstrated a
· · · ·		increased risk of death for patients receiving Venclexta [™] as compared to the control group. On March 6, 2019, the FE required no new patients be enrolled on the Bellini trial. Patients who are receiving clinical benefit can continue treatment
		the trial after they reconsent.
		This statement does not apply to patients taking Venclexta [™] for an approved indication. Patients taking Venclexta [™] for a approved indication should continue to take their medication as directed by their health care professional. Venclexta [™]
		safe and effective for its approved uses.

	acturer		Class	peutic		icatio				Date	Comments
Spravato" Nasal Spra	ay / Janss	en	Central n system a	gent;	antic	depressa		se in adult	s	03/05/2019	DOSAGE AND ADMINISTRATION Induction phase
Pharmace	euticals, Ir	ic.		essant; N-)-aspartate		treatme ession i	ent-resist n adults	tant			 <u>Weeks 1 to 4:</u> Administer twice per week as follows: Day 1 starting dose: 56 mg Subsequent doses: 56 mg or 84 mg
			antagoni			tations		*			
			Note: CII	· *	agen	nt. The sa	afety and				Maintenance phase Weeks 5 to 8: Administer 56 mg or 84 mg once weekly
								nesthetic establishe	d.		 <u>Weeks 9 and after:</u> Administer 56 mg or 84 mg every 2 week or once weekly*
						k box w a ition; dis		n; abuse ar	nd		*Dosing frequency should be individualized to the least frequer dosing to maintain remission/response.
					• misu			thoughts a			Administer intranasally under the supervision of a healthcar
											provider.
											Assess blood pressure prior to and after administration.
											Dosage adjustments should be made based on efficacy an tolerability.
											Evidence of therapeutic benefit should be evaluated at the en
											of the induction phase to determine need for continue treatment.
											DOSAGE FORMS AND STRENGTHS
											Nasal Spray: 28 mg of esketamine per device. Each nasal spray device delivers two sprays containing a total of 28 mg of esketamine.
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Drug/ Manur	facturer		Therapeut Class	tic	Indicatio	ons			Date	Со	mmen	ts					
Ivialiu		5		2	2	2		1	2	5	-	*	2	2	177	1	
	o™ (esketa		Central nervo		In conjunct				03/05/2019		NTRAIND					×	
	oray / Jans ceuticals, l		system agent Antidepressa	nt; N-	antidepres with treatn	nent <mark>-</mark> resis		5			abdomin	al a <mark>o</mark> rta,	intra <mark>cran</mark> i	al and pe	ng thorac riph <mark>e</mark> ral a		ssels
			methyl D-asp		depression	in adults							nalforma	tion.			
(continu	iation)		(NMDA) rece	ptor	* 1						Intracere		. 0				
			antagonist		Limitation								o esketan	nine, keta	mine, or a	any of the	;
			Note: CIII		Not approv agent. The						excipient	.S.					
			Note. Chi		effectivene					WA	RNINGS	AND PRF	CAUTION	s			
					agent have			d.						-	s with car	diovascul	ar
					-0										risk factor		
					Black box v	warning					increase	d risk of a	ssociated	adverse	effects.		
					Sedation; d										ay impair		٦,
					misuse; an	d suicidal	thoughts a	nd					-		nd motor		
					behaviors.										e machin		
												operate r	nachinery	until the	next day	after a re	stfu
											sleep.	fatal tavi		course for	al harm (Consider	
													·		al harm. C in females		
											reproduc			evention	in remaies	5 01	
												, in the point					
										AD	VERSE RE	ACTIONS					
										Mo	st comm	on advers	e reactio	ns: dissoc	iation, diz	ziness, na	ause
															lethargy,	blood	
										pre	ssure inc	reased, v	omiting, a	ind feelin	g drunk.		
										DRI	JG INTER						
														NS) depre	ssants: Co	oncomita	nt u
															zepines, o		
												•			tor for sec	•	
											concomi	tant use.					

Drug/ Manuf	acturer		Therap Class	peutic	Indicat	tions			Date	Comments
Spravato	™ (esketa	mine)	Central n	nervous	In coniur	nction with	an oral		03/05/2019	DRUG INTERACTIONS (continuation)
	ray / Janss		system a	gent;			use in adults			Psychostimulants: Concomitant use with psychostimulants
-	euticals, I			essant; N-		itment-resi				(e.g. amphetamines, methylphenidate, modafanil,
			methyl D)-aspartate	depressi	on in adult	S			armodafinil) may increase blood pressure. Closely monitor
(continua	ation)		(NMDA)	receptor						blood pressure with concomitant use.
			antagoni	st	Limitatio	ns of use				• Monoamine Oxidase Inhibitors (MAOIs): Concomitant use
					Not appr	oved as an	anesthetic			with MAOIs may increase blood pressure. Closely monitor
			Note: CII	1 [*]	agent. Th	ne safety ar	nd			blood pressure with concomitant use.
					effective	ness as an	anesthetic			
					agent ha	ve not bee	n established.			USE IN SPECIFIC POPULATIONS
										 <u>Pregnancy</u>: Not recommended during pregnancy.
						x warning				Lactation: Breastfeeding not recommended.
							on; abuse and			 Females and males of reproductive potential: Consider
					 misuse; a 	and suicida	I thoughts and	* k		pregnancy planning and prevention for females of
					behavior	s.				reproductive potential during treatment.
										• • Pediatric use: Safety and effectiveness in pediatric patients
										have not been established.
										Geriatric use: No overall differences in the safety profile
										were observed between patients 65 years of age and older
										and patients younger than 65 years of age.
										Hepatic impairment: The mean esketamine AUC and t1/2
										values were higher in patients with moderate hepatic
										impairment compared to those with normal hepatic
										function. Patients with moderate hepatic impairment may
										need to be monitored for adverse reactions for a longer
										period of time. Spravato [™] has not been studied in patients
										with severe hepatic impairment (Child-Pugh class C). Use in
										this population is not recommended.
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										nharmol
										PIMITIPIA

Drug/ Manuf	acturer	Thera Class	apeutic		Indicatio	ons		Date	Comments
	mab-qyyp , for intra			•	the treatmoverexpres	sing brea ent of HE sing meta	st cancer, ai R2- astatic gastr	03/11/2019	 DOSAGE AND ADMINISTRATION Adjuvant Treatment of HER2-Overexpressing Breast Cancer Administer at either: Initial dose of 4 mg/kg over 90 minute IV infusion, then 2 mg/kg over 30 minute IV infusion weekly for 12 weeks (with the second seco
		Note: I Hercer	Biosimilar 1 otin™	to	or gastroes adenocarci		Junction		paclitaxel or docetaxel) or 18 weeks (with docetaxel and carboplatin). One week after the last weekly dose of
					Black box v Cardiomyo	pathy, inf			Trazimera™, administer 6 mg/kg as an IV infusion over 30 90 minutes every three weeks to complete a total of 52
					reactions, e and pulmor	•	etal toxicity, city		weeks of therapy, orInitial dose of 8 mg/kg over 90 minutes IV infusion, then 6
									mg/kg over 30 to 90 minutes IV infusion every three week for 52 weeks.
									Metastatic HER2-Overexpressing Breast Cancer • Initial dose of 4 mg/kg as a 90 minute IV infusion followed
									subsequent weekly doses of 2 mg/kg as 30 minute IV infusion followed infusions.
									Metastatic HER2-Overexpressing Gastric Cancer
									 Initial dose of 8 mg/kg over 90 minutes IV infusion, follow by 6 mg/kg over 30 to 90 minutes IV infusion every 3 week
									Select patients for therapy based on an FDA-approved
									companion diagnostic for a trastuzumab product.
									DOSAGE FORMS AND STRENGTHS For Injection: 420 mg lyophilized powder in a multiple-dose vi
									for reconstitution CONTRAINDICATIONS
									None.

Drug/ Manuf	facturer		Thera Class	peutic	lr	ndicatio	ons			Date	Comments
Trazimei (trastuzi	ra™ ımab-qyy	a) for	Antinec	oplastic HER2/neu		reatment		st cancer, a	nd	03/11/2019	 WARNINGS AND PRECAUTIONS Exacerbation of Chemotherapy-Induced Neutropenia.
	, for intra		recepto antagoi	or <mark>.</mark>	th o	ne treatmo verexpres	ent of HE sing meta	R2- Istatic gasti			ADVERSE REACTIONS
						r gastroes		junction			Most common adverse reactions vary per patient diagnosis and
(continua	ation)		Note: B Hercep	liosimilar to tin™	o ac	denocarci	noma				may include: headache, diarrhea, nausea, fever, chills, infection congestive heart failure, insomnia, cough, rash, neutropenia,
						l ack box v ardiomyo		usion			and/or other adverse reactions.
								etal toxicity			DRUG INTERACTIONS
						nd pulmoi			,		Anthracycline: Patients who receive anthracycline after
					*			•			stopping trastuzumab products may be at increased risk of cardiac dysfunction because of trastuzumab's long washout
											period based on population PK analysis. If possible,
											physicians should avoid anthracycline-based therapy for up
											to 7 months after stopping trastuzumab products. If
											anthracyclines are used, the patient's cardiac function shou
											be monitored carefully.
											USE IN SPECIFIC POPULATIONS
											• <u>Pregnancy:</u> Can cause fetal harm.
											 Females and males of reproductive potential: Verify the
											pregnancy status of females prior to initiation. Advise
											females of reproductive potential to use effective
											contraception during treatment and for 7 months following
											the last dose.
											 <u>Pediatric use:</u> Safety and effectiveness of trastuzumab
											products in pediatric patients have not been established.
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YEARS

Drug/ Manuf	facture	r	Thera Class	peutic		Indicatio	ons			Date	Comments
1	ð		-	· ·	-	-		<u>.</u>	1	-	
	™ (brexaı ı, for intra		Central system a			Treatment depressior				03/19/2019	DOSAGE AND ADMINISTRATION Zulresso [™] must be administered as a continuous intravenou
use / Sag	ge Therap	euti <mark>ç</mark> s	Antidep			1	1.0				infusion over 60 hours (2.5 days) as follows:
			Gamma			Black box	-				• 0 to 4 hours: Initiate with a dosage of 30 mcg/kg/hour
			aminob			loss of con		and sudden			 4 to 24 hours: Increase dosage to 60 mcg/kg/hour 24 to 52 hours: Increase dosage to 90 mcg/kg/hour
			A (GABA positive				sciousnes	5			(alternatively consider a dosage of 60 mcg/kg/hour for those
			modulat		۲ ۱						who do not tolerate 90 mcg/kg/hour)
			mound								 52 to 56 hours: Decrease dosage to 60 mcg/kg/hour
			Note: Co	ontrolled							 56 to 60 hours: Decrease dosage to 30 mcg/kg/hour
			substan	ce sched	ule						
			pending								A healthcare provider must be available on site to continuous
											monitor the patient, and intervene as necessary, for the duration
											of the infusion.
											DOSAGE FORMS AND STRENGTHS
											Injection: 100 mg/20 mL (5 mg/mL) single-dose vial.
											CONTRAINDICATIONS
											None.
											WARNINGS AND PRECAUTIONS
											Suicidal thoughts and behaviors: Consider changing the
											therapeutic regimen, including discontinuing, in patients
											whose PPD becomes worse or who experience emergent
											suicidal thoughts and behaviors.
											ADVERSE REACTIONS Most common adverse reactions: sedation/somnolence, dry
											mouth, loss of consciousness, and flushing/hot flush.
											mouth, loss of consciousness, and mashing/not hush.

Drug/ Manuf	facture	-	Thera Class	apeutic		Indicatio	ons		Date	Comments
Injection	™ (brexan , for intra	venous	system			Treatment depression			03/19/2019	DRUG INTERACTIONS <u>CNS depressants:</u> Concomitant use with CNS depressants
use / Sag	ge Therap	eutics		pressant;						(e.g. opioids, benzodiazepines) may increase the likelihood
/ · · · · · · · · · · · · · · · ·	- 41 \		Gamm			Black box v	-			or severity of adverse reactions related to sedation.
(continua	ation)			outyric aci		Excessive s				<u>Antidepressants:</u> In placebo-controlled studies, a higher
				A) recepto		loss of cons	sciousnes	S		percentage of Zulresso™-treated patients who used
			modula	e allosterio	C 					concomitant antidepressants reported sedation-related events.
			mouula	ator						events.
			Note: (Controlled						USE IN SPECIFIC POPULATIONS
				nce schedi						Pregnancy: May cause fetal harm.
			pendin							Pediatric use: Safety and effectiveness in pediatric patients
			P	0						have not been established.
										Hepatic impairment: Dosage adjustment in patients with
										hepatic impairment is not necessary. Modest increases in
										exposure to unbound brexanolone and modest decreases in
										exposure to total brexanolone were observed in patients
										with moderate to severe hepatic impairment with no
										associated change in tolerability.
										<u>Renal impairment:</u> No dosage adjustment is recommended
										in patients with mild (eGFR 60 to 89 mL/minute/1.73 m2),
										moderate (eGFR 30 to 59 mL/minute/1.73 m2) or severe
										(eGFR 15 to 29 mL/minute/1.73 m2) renal impairment.
										Avoid use of Zulresso [™] in patients with end stage renal
										disease (ESRD) with eGFR of < 15 mL/minute/1.73 m2
										because of the potential accumulation of the solubilizing
										agent, betadex sulfobutyl ether sodium.
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										nharmol
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Drug/ Manuf	acturer	2 - 	Thera Class	peutic		Indicatio	ons		D	ate	Comments
Sun <mark>o</mark> si™	(solriamf	etol)	Central	nervous		Treatment	of excess	ive sleepiness	. 03	/20/2019	DOSAGE AND ADMINISTRATION
Tablets, f	for oral us	se /	system	agent;				h narcolepsy			Sunosi™ is to be administered once daily upon awakening.
Jazz Phar	rmaceutic	als plc	Central	nervous		or obstruct	ive s <mark>l</mark> eep	apne <mark>a (OSA)</mark>			 Starting dose for patients with narcolepsy: 75 mg once daily.
				stimulant							 Starting dose for patients with OSA: 37.5 mg once daily.
				e dopami	ine	Limitations					
			and			Not indicat					Dose may be increased at intervals of at least 3 days. The
				ephrine				ostruction in			maximum dose is 150 mg once daily.
				e inhibito	or			e underlying			
			(DNRI)			•		s treated (e.g.			Avoid administration within 9 hours of planned bedtime becaus
								itive airway			of the potential to interfere with sleep.
				ontrolled				at least one			
				ice sched	ule	•		ting Sunosi™			For patients with renal impairment:
			pending	3			•	e sleepiness.			• Moderate impairment: Starting dose is 37.5 mg once daily.
								he underlying			May increase to 75 mg once daily after at least
						airway obs					days.
							-	eatment with			Severe impairment: Starting dose and maximum dose is 37.
						Sunosi™. S					mg once daily.
						substitute	or these	modalities.			• End stage renal disease (ESRD): Not recommended.
											DOSAGE FORMS AND STRENGTHS
											Tablets: 75 mg (functionally scored) and 150 mg.
											CONTRAINDICATIONS
											Concurrent treatment with a monoamine oxidase inhibitor
											(MAOI) or use of an MAOI within the preceding 14 days.
											WARNINGS AND PRECAUTIONS
											Blood pressure and heart rate increases: Measure heart rat
											and blood pressure prior to initiating and periodically
											throughout treatment. Control hypertension before and
											during therapy. Avoid use in patients with unstable
											cardiovascular disease, serious heart arrhythmias, or other
											serious heart problems.
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Drug/ Manufacturer		Thera Class	peutic		Indicati	ons			Date	Com	nment	S					
		<u></u>		-			<u></u>	-	-		-		1	<u>.</u>	<i>*</i>	<u></u>	
Sunosi™ (solriamfet			nervous				sive sleepine		03/20/2019				CAUTION			*	
Tablets, for oral use		system	-				h narcoleps								n treating		
Jazz Pharmaceutical	s plc		nervous		or obstruc	tive sleep	apnea (OSA)							rders. Con		se
(continuation)		•	stimulant		Limitation									n of SUNG	OSI if psyc	niatric	
(continuation)		and	e dopami	ine	Limitation Not indica		at the			. sy	ymptoms	aevelo	p. 🕌				
			ephrine				bstruction ir				ERSE REA						
			e inhibito	ar ·			e underlying							ns: hoada	che, nause	aa dacra	256
		(DNRI)					s treated (e.						nd anxiety		cire, nause	ea, uecre	asc
							sitive airway			upper		-		•			
		Note: C	ontrolled				r at least one			DRUG	G INTERA	CTIONS	5				
		substan	ce sched	ule *			ting Sunosi			• N	AOIs: Co	oncomit	ant use o	f MAO inł	nibitors an	nd 🔹	
	pending						ne sleepiness			n	oradrene	ergic dru	igs may in	crease th	e risk of a	hypertei	nsi
	pending					•	he underlyir								e death, st		
						struction s	should be			m	nyocardia	al infarct	tion, aorti	c dissecti	on, ophtha	almologio	cal
						during tr	eatment wit	h -		• co	omplicat	ions, ecl	ampsia, p	ulmonary	y edema, a	and renal	
					Sunosi™. S						ailure .						
					substitute	for these	modalities.								and/or he		
															ated, and	such	
													uld be use				
															drugs that		2
															tly to dop		
															lynamic in		
															ergic drugs oncomitar		π
													paminergi		Unconntai	iitiy	
										-	uniniste		anninergi	c ulugs.			
										USE I			JLATIONS	;			
															osure regi	istry that	
															men expo		
															re provide		
										e	ncourage	ed to reg	gister preg	gnant pat	ients, or p	regnant	
										w	omen m	ay enro	ll themsel	ves.			
														nn	arn	nDI	X

VEAR

Drug/ Manuf	acturer		Thera Class	apeutic		Indicatio	ons		D	ate	C	ommen	ts _					
	(solriamfe for oral us			l nervous agent;				ive sleepiness h narcolepsy	. 03	3/20/2019	. US	SE IN SPEC				iation) ess in pedi	atric nati	ents
	rmaceutic		C <mark>e</mark> ntral	l nervous stimulan	t;			apnea (OSA)			•	have not	been est	ablished		ul differer		
(continua	ation)		and	ve dopam	ine	Limitations Not indicat	ed to trea					patients.				veen elder		
				nephrine ke inhibit	or	OSA. Ensur	e that the	bstruction in e underlying s treated (e.g.			•	patients	with mild	renal in	npairment	ent is not i (eGFR 60- ent is reco	-89	
				Controlled	-	with contin	uous pos	sitive airway at least one				patients	with mod	lerate to	severe re	nal impair not recon	ment (eG	FR
				nce sched g	ule *	for excessiv	ve daytim	iting Sunosi™ ie sleepiness.				patients	with end	stage re	nal diseas	e (eGFR		
						airway obst	truction s	he underlying hould be eatment with										
						Sunosi™. Su substitute f	unosi™ is	not a										
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Drug/ Manuf	facture	r	Thera Class	apeutic	Indicatio	ons		Date	Comments
Tablets,	t™ (siponi for oral u	se /	agent;	ological	•	lerosis (N	IS), to includ	03/26/2019	DOSAGE AND ADMINISTRATION Specific assessment is required prior initiation of treatment. Se
Novartis Corporat	Pharmac tion	euticals	Sphing phosph	osine-1- nate		emitting o	disease, and		Full Prescribing Information for details.
			recepto modula		active seco disease, in		gressive		Titration is required for treatment initiation and monitoring recommended. See Full Prescribing Information for details.
									The recommended maintenance dosage is 2 mg. The
									recommended maintenance dosage in patients with a CYP2 *1/*3 or *2/*3 genotype is 1 mg.
									DOSAGE FORMS AND STRENGTHS
									Tablets: 0.25 mg and 2 mg.
									CONTRAINDICATIONS
									 Patients with a CYP2C9*3/*3 genotype . In the last 6 months, experienced myocardial infarction,
									unstable angina, stroke, TIA, decompensated heart failure requiring hospitalization, or Class III/IV heart failure.
									 Presence of Mobitz type II second-degree, third-degree AV block, or sick sinus syndrome, unless patient has a
									functioning pacemaker.
									WARNINGS AND PRECAUTIONS
									 <u>Infections:</u> Mayzent[™] may increase the risk. Obtain a complete blood count (CBC) before initiating treatment.
									Monitor for infection during treatment. Do not start in patients with active infection.
									 <u>Macular edema</u>: An ophthalmic evaluation is recommende before starting treatment and if there is any change in visio
									while taking Mayzent [™] . Diabetes mellitus and uveitis increase the risk.

Drug/ Manufactu	urer	Thera Class	peutic	Indicatio	ons			Date	Comments
Mayzent™ (si Tablets, for o Novartis Phar Corporation	ral use /	Immuno agent; Sphingo phospha recepto	osine-1- ate	multiple sc clinically iso	lerosis (No plated syr emitting o	disease, and	2	03/26/2019	 WARNINGS AND PRECAUTIONS (continuation) Bradyarrhythmia and atrioventricular conduction delays: Mayzent™ may result in a transient decrease in heart rate; titration is required for treatment initiation. Consider resting heart rate with concomitant betablocker use; obtain
(continuation)		modula		disease, in		0			cardiologist consultation before concomitant use with other
									 drugs that decrease heart rate. <u>Respiratory effects:</u> May cause a decline in pulmonary function. Assess pulmonary function (e.g. spirometry) if
									clinically indicated.
									 <u>Liver injury:</u> Obtain liver enzyme results before initiation. Closely monitor patients with severe hepatic impairment. Discontinue if significant liver injury occurs.
									 <u>Increased blood pressure (BP)</u>: Monitor BP during treatment.
									• <u>Fetal risk:</u> Women of childbearing potential should use effective contraception during and for 10 days after stopping
									Mayzent™.
									ADVERSE REACTIONS Most common adverse reactions: headache, hypertension, and
									transaminase increases.
									 DRUG INTERACTIONS Vaccines: Avoid live attenuated vaccines during and for up t
									4 weeks after treatment with Mayzent [™] .
									 <u>CYP2C9 and CYP3A4 inhibitors:</u> Increase in siponimod exposure; concomitant use of Mayzent[™] with moderate
									CYP2C9 and moderate or strong CYP3A4 inhibitors is not recommended.

Drug/ Manuf	acture	r	Ther Class	apeutic S		Indicatio	ons		Date	Comments
Mayzent Tablets, f	for oral u	se /	agent;			multiple scl	lerosis (N	ng forms of IS), to include	03/26/2019	DRUG INTERACTIONS (continuation) <u>CYP2C9 and CYP3A4 inducers:</u> Decrease in siponimod
Novartis Corporat		euticals	Sphing phospl recept			clinically iso relapsing-re active seco	emitting o	disease, and		exposure; concomitant use of Mayzent™ with moderate CYP2C9 and strong CYP3A4 inducers is not recommended.
(continua	ation)		modul			disease, in a		Bressive		USE IN SPECIFIC POPULATIONS
						*				• <u>Pregnancy:</u> Based on animal data and its mechanism of action, Mayzent [™] can cause fetal harm.
										 <u>Females and males of reproductive potential</u>: Before initiation of treatment, women of childbearing potential
										should be counselled on the potential for a serious risk to the fetus and the need for effective contraception during
										treatment. Since it takes approximately 10 days to eliminate the compound from the body after stopping treatment, the potential risk to the fatur may parsist and warman should use
										 potential risk to the fetus may persist and women should use effective contraception during this period. Pediatric use: Safety and effectiveness in pediatric patients
										 <u>Geriatric use:</u> Clinical studies did not include sufficient
										numbers of subjects aged 65 and over to determine whether they respond differently from younger subjects.
										• <u>CYP2C9 genotype</u> : Before initiation of treatment, test patients to determine CYP2C9 genotype. Mayzent [™] is
										contraindicated in patients homozygous for CYP2C9*3 (e.g. CYP2C9*3/*3 genotype). Mayzent™ dosage adjustment is
										recommended in patients with CYP2C9 *1/*3 or *2/*3 genotype because of an increase in exposure to siponimod.
		•								
		5	15	-	-					

Drug/ Manufacturer	Therapeutic Class	Indications	Date	Comments
Mavenclad™ (cladribine)	Purine	Treatment of	03/29/2019	DOSAGE AND ADMINISTRATION
Tablets, for oral use /	antimetabolite	relapsing forms of multiple		Specific assessment is required prior initiation of treatment. Se
EMD Serono, Inc.		sclerosis (MS), to include relapsing-remitting		Full Prescribing Information for details.
		disease and active secondary		DOSAGE FORMS AND STRENGTHS
		progressive disease, in adults.		Tablets: 10 mg.
		Note: Because of its		CONTRAINDICATIONS
		safety profile, use of Mavenclad™		Patients with current malignancy.
		is generally recommended for		Pregnant women, and women and men of reproductive
		patients		potential who do not plan to use effective contraception
		who have had an inadequate		during treatment and for 6 months after the last dose in each
		response to, or are unable to		treatment course.
		tolerate, an alternate drug		HIV infection.
		indicated for the treatment of MS.		Active chronic infections (e.g. hepatitis or tuberculosis).
				History of hypersensitivity to cladribine.
		Limitations of use		 Women intending to breastfeed on a MMavenclad[™]
		Not recommended for use in		treatment day and for 10 days after the last dose.
		patients with clinically isolated		
		syndrome (CIS) because of its		WARNINGS AND PRECAUTIONS
		safety profile.		Lymphopenia: Monitor lymphocyte counts before, during
				and after treatment.
				Infections: Screen patients for latent infections; consider
				delaying treatment until infection is fully controlled.
				Vaccinate patients antibodynegative to varicella zoster viru
				prior to treatment. Administer anti-herpes prophylaxis in
				patients with lymphocyte counts less than 200 cells per
				microliter. Monitor for infections.
				Hematologic toxicity: Monitor complete blood count befor
				during and after treatment.
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				nharmal

Drug/ Manufactu	rer	Thera Class	peutic	Indi	cations			Date	Comments
Mavenclad™ (-	Purine	×		ment of	×	-	03/29/2019	WARNINGS AND PRECAUTIONS (continuation)
Tablets, for ora		antimeta	abolite	•	sing forms of	•			<u>Graft-versus-host-disease with blood transfusion:</u>
EMD Serono, I	nc.				osis (MS), to in				Irradiation of cellular blood components is recommended.
(•	sing-remitting	•			 Liver injury: Obtain tests prior to treatment. Discontinue if
(continuation)					se and active				clinically significant injury is suspected.
				progr	essive diseas	e, în adults.			
									ADVERSE REACTIONS
					Because of it		ТМ		Most common adverse reactions: upper respiratory tract
					y profile, use				infection, headache, and lymphopenia.
					erally recomine	nended for			DRUG INTERACTIONS
				patie	nis nave had an ir	adaquata			
					inse to, or are				 Immunosuppressive drugs: Consider overlapping effects of immune system, when used sequentially. Concomitant use
					ate, an alterna				not recommended.
					ated for the tr	-	10		 Hematotoxic drugs: Monitor patients for additive effects o
				muica			/15.		the hematological profile.
				Limit	ations of use				 Antiviral and antiretroviral drugs: Avoid concomitant use.
					ecommended	for use in			 BCRP or ENT/CNT inhibitors: May alter bioavailability of
					nts with clinic				cladribine. Avoid concomitant use.
					ome (CIS) be				claufiblile. Avoid conconntant use.
					y profile.				USE IN SPECIFIC POPULATIONS
				Surce	y prome.				 <u>Pregnancy:</u> Contraindicated in pregnant women.
									 <u>Lactation</u>: Contraindicated in breastfeeding women becaus
									of the potential for serious adverse reactions in breastfed
									infants. Advise women not to breastfeed during treatment
									and for 10 days after the last dose.
	80								
									DNALMOIX
								-	

Drug/ Manufact	turer	Thera Class	peutic	Indicatio	ons			Date	C	Comments					
Mavenclad™	' (cladribine)	Purine	2	 Treatment o	of .			03/29/2019	. US	ISE IN SPECIFIC PO	PULATIONS	6 (continu	ation)		
Tablets, for	oral use /	antimet	abolite	relapsing fo	rms of m	ultiple			•	Females and ma	ales of repr	oductive	potential:	<u>:</u>	
EMD Serono	, Inc.			scleroșis (M	IS), to inc	lude				Contraindicated					
				relapsing-re	emitting					potential who d	o not plan t	o use effe	ective con	traceptio	n.
(continuation	n)			disease and	active se	econdary				Pregnancy shou	ld be exclud	ded befor	e the initia	ation of e	ac
				progressive	disease,	in adults.				treatment cours	e. Females	of reproc	uctive pot	tential sh	οι
										prevent pregna	ncy by use o	of effectiv	e contrace	eption du	rii
				Note: Becau	use of its					Matreatment a	nd for at lea	ist 6 mont	hs after th	he last do	se
				safety profi	le, use of	Mavencla	d™			each treatment	course. Wo	men usin	g systemic	cally actin	ng
				is generally	recomm	ended for				hormonal contr	aceptives sl	nould add	a barrier	method o	du
				patients						treatment and f	or at least 4	l weeks at	ter the las	st dose in	e
				who have h	ad an ina	dequate				treatment cours	e. Male pat	tients of r	eproductiv	ve potent	tia
				response to	, or are u	inable to				should take pre	cautions to	prevent p	regnancy	of their	
				tolerate, an	alternate	e drug				partner during t					rt
				indicated fo	or the trea	atment of I	MS.			last dose in each	n treatment	course.			
									1 -	Pediatric use: S	afety and et	ffectivene	ss in pedia	atric patie	en
				Limitations	of use					have not been e	stablished.				
				Not recomn	nended f	or use in			•	Geriatric use: C	inical studi	es did not	include s	ufficient	
				patients wit	h clinical	ly isolated				numbers of pati	ents aged 6	5 and ove	er to deter	rmine wh	et
				syndrome (CIS) beca	use of its				they respond di	fferently fro	om young	er patient	.s.	
				safety profi	le.				•	Renal impairme	nt: The cor	ncentratio	n of cladri	ibine is	
										predicted to inc	rease in pat	tients with	n renal im	pairment.	. I
										dosage adjustm	ent is recor	nmended	in patient	ts with mi	ilc
										renal impairmer	nt (CrCl 60 t	o 89 mL p	er minute	e). Maven	Icl
										is not recomme	nded in pat	ients with	moderat	e to sever	re
										renal impairme	nt (CrCl belo	ow 60 mL	per minut	te).	
									•	Hepatic impairr	nent: The e	ffect of h	epatic imp	pairment	10
										the pharmacoki	netics of cla	adribine is	unknown	n. No dosa	ag
										adjūstment is re					-
										impairment. Ma	venclad™ i	s not reco	mmended	d in patier	nt
										with moderate	o severe he	epatic imp	airment.		

New FDA Approved Indications

Drug/ Manufacturer	Therapeutic class	Indications	Date	Comments
Tecentriq™ (atezolizumab)	Antineoplastic agent;	Previous indication(s): Treatment of advanced urothelial	03/08/2019	The FDA has granted accelerated approval to Tecentriq™ plus chemotherapy (Abraxane [paclitaxel protein-bound particles for
Injection / Genentech, Inc.	Programmed death-ligand 1	carcinoma; the treatment of metastatic non-small cell lung		injectable suspension (albumin-bound); nab-paclitaxel]) for the treatment of adults with unresectable locally advanced on
	(PD-L1) blocking antibody	cancer (NSCLC); extensive-stage small cell lung cancer		metastatic triple-negative breast cancer (TNBC) in people whose tumors express PD-L1, as determined by an FDA-approved test.
		New indication:		The accelerated approval was based on progression-free surviva
		For use in combination with Abraxane for the treatment of		(PFS). Continued approval for this indication may be contingen upon verification and description of clinical benefit in a
		metastatic triple-negative breast cancer		confirmatory trial(s). Data from a Phase III study demonstrated tha Tecentriq [™] plus nab-paclitaxel significantly reduced the risk of PFS
				by 40% compared with nab- paclitaxel alone (median PFS=7.4 vs. 4.8 months; HR=0.60, 95% CI: 0.48-0.77, p<0.0001) in PD-L1-positive
				patients with unresectable locally advanced or metastatic TNBC who had not received prior chemotherapy for metastatic disease Overall survival (OS) results were immature with 43% of events in
				all randomized patients (intent-to-treat; ITT), and further data wil be shared with the FDA and presented at an upcoming medica
				meeting.
Dupixent™ (dupilumab) Injection	Antiasthma and dermatological	Previous indication(s): Treatment of moderate-to-severe	03/11/2019	Currently, Dupixent [™] is the only IL-4/IL-13 inhibitor therapy on the market, both interleukins are thought to play a key underlying role
/ Sanofi and Regeneron	agent; Monoclonal	eczema (atopic dermatitis) in adults; Add-on maintenance		in atopic dermatitis. Phase 3 trials demonstrated improved severit of disease, decreased itching, and resulted in clearer skin. Trials fo
Pharmaceuticals, Inc.	antibody; Interleukin-4 receptor alpha	treatment for moderate-to-severe asthma		atopic dermatitis treatment in children ages 6-11 are currently underway with a target completion date by the end of the 2019.
	antagonist	Patient population altered: To include the treatment of		
(#) * *)		adolescent patients 12 to 17 years of age with moderate-to-severe		

New FDA Approved Indications

Drug/ Manufacturer	Therapeutic class	Indications	Date	Comments
Avycaz™ (avibactam and ceftazidime)	Anti-infective agent; A next	Previous indication(s): Treatment of complicated intra-	03/14/2019	This is the first FDA approval of a pediatric indication for cUTI and cIAI in more than a decade.
Injection / Actavis Pharma, Inc.	generation, non- β lactam β-	abdominal infections (cIAI), complicated urinary tract		
	lactamase inhibitor and	infections (cUTI), hospital- acquired bacterial pneumonia,		
	third-generation, antipseudomonal	and ventilator-associated bacterial pneumonia		
	cephalosporin antibiotic	Patient population altered:		
	combination	To include pediatric patients 3 months and older for the		
		treatment of cIAI in combination with metronidazole and cUTI		
Tecentriq™ (atezolizumab)	Antineoplastic agent;	Previous indication(s): Treatment of advanced urothelial	03/18/2019	This approval is based on results from a Phase III study that showed that Tecentrig™ in combination with chemotherapy helped people
Injection / Genentech, Inc.	Programmed death-ligand 1	carcinoma; the treatment of metastatic non-small cell lung		live significantly longer compared to chemotherapy alone (media overall survival [OS] = 12.3 versus 10.3 months; hazard ratio [HR]
	(PD-L1) blocking antibody	cancer (NSCLC); extensive-stage small cell lung cancer; in		0.70, 95% CI: 0.54-0.91; p=0.0069) in the intention-to-treat (ITT population. The Tecentriq [™] -based combination also significant
		combination with Abraxane for the treatment of metastatic triple-		reduced the risk of Progression-free survival (PFS) compared t chemotherapy alone (PFS=5.2 versus 4.3 months; HR=0.77; 95% C
		negative breast cancer		0.62-0.96; p=0.017). Safety for the Tecentriq [™] and chemotherap combination appeared consistent with the known safety profile of
		New indication: For the initial (first-line) treatment		Tecentriq™.
		of adulta with autonaiva staga		
		of adults with extensive-stage small cell lung cancer (ES-SCLC)	1. N	
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New FDA Approved Indications

Drug, Manu	/ ufacturer		Thera class	peutic	Indic	ations			Date	2	Comment	5					
Cimzia ¹ (certoli	™ izumab pegol)	•	Immuno agent; A	-		us indica nent of C	ation(s): rohn's di	sease,	-03/28	8/2019	This approva treatment for		imzia™ tł	ne first ai	nd -only	FDA-app	orove
Injectio	on / UCB, Inc.				arthrit	is, ankylo	chritis, ps osing spo										
					plaque	e psoriasi	S										
					Treatn		non-radio	ographic nr-axSpA)									
Tablets	m (tegaserod) s / US Meds, LLC		Serotoni HT4) rec agonist	· ·		nent of a	dult wom	nen less h irritable	03/29)/2019	Zelnorm [™] wa treatment of market in Ma	BS-C in wo	men. It wa	as volunta	rily with	drawn fro	om th
						syndrom		onstipation			chance of he treated with 2	art attack,	stroke,	and unsta	ble ang	ina in pa	atient
											In July 2007	the EDA	annound	ed that	it was	normittir	va th
				-	-						restricted use drug (IND) pi	of Zelnorr	n™ <mark>under</mark>	a treatm	ent inve	stigation	al nev
											patients with life-threatenii	ng illnesse					
											alternative tre	eatments.					
											In March 201 for the treat	ment for I	BS-C in w	om <mark>e</mark> n und	der 65	Approval	cam
											after a compl Drugs Adviso evaluation of	ry Commit	tee (GIDA	AC). The r	eview f	ocused o	on th
											newly-availab GIDAC vote a	le sources	of treat	ment out	come da	ata. A p	ositiv
											Zelnorm [™] for						
			1											nha	arn		\vee
																	N

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

Manufa	acturer		Therapeut class	ic •	Indica	tions		Date	Comments
Rocklatan	,™ <u>)</u>		Ophthalmolog	gic	To reduc	ce elevate	d ·	03/12/2019	Rocklatan [™] is a once-daily eye drop that is a fixed-dose combination of
(netarsud	il and		agent;		intraocu	lar pressu	re (IOP) in		latanoprost, a prostaglandin analog (PGA) widely-prescribed, and
latanopro	st) 🔹		Antiglaucoma	; =	patients	with ope	n-angle		netarsudil, the active ingredient in Rhopressa™ (netarsudil ophthalmic
Ophthalm	nic Solution	/	Combination	of the	glaucom	a or ocula	ır		solution) 0.02%, a first-in-class Rho kinase (ROCK) inhibitor specifically
Aerie			Rho kinase		hyperter	ns <mark>i</mark> on			designed to target the trabecular meshwork (the eye's principal drainage
Pharmace	euticals, Inc.		inhibitor neta						pathway) that was approved by the FDA on December 2017.
			(Rhopressa™)						
			the prostagla						
			F2α analogue						
			latanoprost						
			(Xalatan™)						
Jatenzo™			Testosterone		Treatme	ent of low		03/27/2019	Jatenzo™ is a new dosage form of testosterone undecanoate: oral
(testoster	one		replacement		testoste	rone in			capsule. The oral route of administration provides an new alternative to
undecano	ate)		therapy		hypogor	nadal men			current available treatment options, which up until now where most
Capsules ,	/ Clarus								commonly applied to the skin or injected.
Therapeut	tics, Inc.								
									Sepcifically, testosterone undecanoate was already available in the
									market as an injectable solution for intramuscular use, under the brand
									name Aveed [™] . Oral testosterone was already available in the market as
									a buccal patch, under the brand name Striant™.
									It s of important note that this drug should not be used to treat older
									men with age-related hypogonadism.
									men with age-related hypogonausm.
									Note: CIII
									Note: em
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-	0 8	2) 2) 8)		- -					
			-	- - -		-			
	-			- - -	-	2 2 2			pharmoiX

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

		Therapeutic class	Indications	Date	Comments
Maveclad™ (cladribine) /	/ Emd	Purine antimetabolite	Treatment of relapsing forms of multiple	03/29/2019	Maveclad [™] is a new dosage form of cladribine: oral tablet. Cladribine was already available in the market as an injectable solution fo
Serono Inc.			sclerosis (MS), to include relapsing-remitting		intravenous (IV) use. However, this IV formulation is FDA-approved only for the treatment of Hairy Cell Leukemia.
			disease and active secondary progressive		Maveclad [™] comes to be the first and only short-course oral treatmer
			disease, in adults.		for relapsing-remitting and active secondary progressive multipl sclerosis.
			safety profile, use of Mavenclad™ is generally		The efficacy of Mavenclad [™] was shown in a clinical trial in 1,326 patient with relapsing forms of MS who had least one relapse in the previous 1
			recommended for patients		months. Mavenclad [™] significantly decreased the number of relapse experienced by these patients compared to placebo. Mavenclad [™] also
			inadequate response to, or are unable to tolerate, an		reduced the progression of disability compared to placebo.
			alternate drug indicated for the treatment of MS.		
Avaclyr™ (ac Ophthalmic	•	Herpes simplex virus nucleoside	Treatment of acute herpetic keratitis (dendritic ulcers) in		Avaclyr™ is a new dosage form of acyclovir: ophthalmic ointment.
/ Fera Pharmaceuti		analog DNA polymerase inhibitor indicat	patients with herpes simplex (HSV-1 and HSV-2)		This ophthalmic formulation of acyclovir was granted Orphan Druexclusivity by the FDA.
Duaklir Press (aclidinium b		long-acting muscarinic	Treatment of COPD	03/29/2019	Duaklir Pressair [™] is a new fixed-dose combination of the LAM aclidinium bromide (400 mcg) and LABA formoterol fumarate (12 mcg).
and formote fumarate) In	rol	antagonist (LAN and long-acting	IA)		
Powder / Cir Pharmaceuti	cassia	beta2 agonist (LABA) fixed dos	e		
		combination			



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New First Time Generic Drug Approval

Drug	/Manufa	acturer			Therap	oeutic C	lass		D	ate		Со	mment	S			
	trant Injecti al Pharmace			-	Antineop	lastic age	nt; Antie	strogen	0	3/04/2019	н. Н	Ger	ieric for: F	aslodex		-	
	astine Besila / Apotex Co			rops	Ophthalr	nologic ag	gent; Anti	histamine	. 0	3/05/2019		, Ger	ieric for: I	Bepreve			
	stigmine Br Iovitium Ph			ng/5	Choliner	gic agent			03	3/08/2019		Ger	eric for: I	Vestinon	Syrup		·
10271																	
Naftifi Tolma	ne Hydroch r Inc.	lloride Top	oical Gel	1%/	Dermato	logical ag	ent; Antif	ungal	- 03	3/20/2019		Ger	eric for: I	Naftin Gel	1%		
	en Hemifun				Antihype	rtensive			0	3/22/2019		Gen	eric for: T	ekturna			
	and 300 mg aceuticals,		Anchen														
	sentan Tabl			ng /-			Endothel	in receptor	- 03	3/28/2019		Ger	eric for: L	etairis.			
Pharm Pharm	n Laborator aceuticals I aceuticals (nc.; Zydus USA) Inc.;	Sun		antagoni	st •							5 1			1.5	
Pharm	aceutical In	dustries, I	Inc.		-					*	8	1					1
		81) -															
															nh	arn	
																	Ψ

PIPELINE.....

Drug/Manu	ifacture	er	Date		Indica	tions		Comments Impact	
Rexista (oxycod hydrochloride)	Extended-		03/04/	2019	Treatme	nt for: Pai	n	Rexista (oxycodone hydrochloride extended release) is an Moderate abuse and alcohol-deterrent controlled-release formulation	
Release Tablets Intellipharmace International In	utics							of oxycodone hydrochloride in development for the relief of moderate to severe pain.	
								Intellipharmaceutics announces resubmission of NDA for its Oxycodone ER.	
Fedratinib / Cel	gene Corp	oration	03/05/	2019	Treatme Myelofik			Fedratinib is a highly selective JAK2 inhibitor in development High for the treatment of patients with myelofibrosis, which	
					,			represent the first potential new treatment option after many years.	
								The FDA granted priority review for fedratinib NDA in myelofibrosis.	
FMX101 (minoc oamix Pharmac	• •	am /	03/07/	2019	Treatme	nt for: Acr	ne	FMX101 (minocycline) is a topical foam formulation of Moderate-	
								to-severe acne vulgaris.	
								Foamix Pharmaceuticals Ltd. announced that the FDA has accepted for review the NDA for FMX101.	
Ubrogepant / A	llergan plo	•	03/11/	2019	Treatme	nt for: Mig	graine	Ubrogepant is a potent, orally-administered CGRP receptor High antagonist in development for the acute treatment of	
								migraine.	
								Allergan announced FDA acceptance of NDA for ubrogepant	
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Lembo	orexant /	Eisai Co.,	Ltd.	03/12	/2019	Treatm	ent for: l	nsomnia	Lemi	oorexant i	s dual o	rexin rece	eptor anta	gonist (DORA) in	Mode	rate	
													of insomnia					
										and Im ptance of			ics annou ant.	nced F	DA filing			
Ozanimod / Celgene Corporation			03/25	03/25/2019 Treatment for: Multiple Sclerosis, Ulcerative				Ozanimod is an investigational selective sphingosine 1- phosphate (S1P) 1 and 5 receptor modulator in development								Moderate		
						Scleros Colitis	is, Ulcera	tive	for	the treat	ment of	patient	r modulato s with re			-		
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