

PharmNOTES

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

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Table of Contents

														Page				
News														3				
New FD	A Approv	ed Produ	cts											4-12				
Ny	/vepria™	(pegfilgra	stim-apgf)										4				
U	olizna™ (i	nebilizum	ab-cdon)											5-6				
Ze	epzelca™	(lurbinecte	edin)											7-8				
Fi	ntepla™ (fenfluram	ine)											9-11				
Do	ojolvi™ (tr	riheptanoi	in)											12				
New FD	A Approv	ed Formu	lations, D	Dosage Fo	orms, Con	nbination	Products	and Oth	er Differe	ences				13-15				
New FD	A Approv	ed Indica	tions											16-19				
New Fir	st-Time G	ieneric Dr	ug Appro	val										19				
Pipeline														20				
Referen	ces													21				
			÷.															
															ph	ar	m	OIX
			•	1	-	-						17	1		POWERE	D BY ONEAR	ĸ	

Drug issue	Date	Details
FDA alert about Amneal and Impax Epinephrine Auto- Injector Devices Malfunction	06/01/2020	The FDA published a safety communication for Epinephrine Auto-Injector Devices produced by Amneal Pharmaceuticals and Impax Laboratories, due to possible malfunctions. The FDA is alerting healthcare professionals, patients, and caregivers to immediately inspect certain lots of Amneal and Impax epinephrine auto-injector 0.3 mg to ensure the yellow "stop collar" in the device is present. If the auto- injector is missing the yellow "stop collar" component, the device has the potential safety risk of delivering a double dose of epinephrine to a patient.
		Read FDA's letter to healthcare professionals for full details, including affected lots, step by step visual inspections instructions, and additional actions to take.
COVID-19 Update: FDA Warns of Newly Discovered Potential Drug Interaction That May Reduce Effectiveness of a COVID-19 Treatment Authorized for Emergency Use	06/15/2020	The FDA is warning about a potential drug interaction between remdesivir and chloroquine phosphate or hydroxychloroquine sulfate, were co-administration may result in the reduced antiviral activity of remdesivir. Remdesivir is an investigational antiviral drug that received an <u>emergency use authorization (EUA)</u> on May 1, 2020, for the treatment of hospitalized COVID-19 patients with severe disease. The safety and efficacy of remdesivir for the treatment of COVID-19 continue to be evaluated. Additional information is available at the <u>FDA's Press Announcements</u> portal and in the <u>fact sheet for health care providers</u> .
COVID-19 Update: FDA Revokes Emergency Use Authorization for Chloroquine and Hydroxychloroquine	06/15/2020	The has revoked the emergency use authorization (EUA) issued on March 28, 2020 allowing for chloroquine phosphate and hydroxychloroquine sulfate donated to the Strategic National Stockpile (SNS) to be used to treat certain hospitalized patients with COVID-1 when a clinical trial was not available or feasible. Additional information is available at the <u>Revocation of the EUA Letter</u> and the <u>FAQs on the Revocation of the EUA for Hydroxychloroquine Sulfate and Chloroquine Phosphate</u> for additional information.
FDA advises not to use hand sanitizer products manufactured by Eskbiochem	06/24/2020	 The FDA published a safety communication for advising not to use any hand sanitizer manufactured by Eskbiochem SA de CV in Mexico, due to the potential presence of methanol (wood alcohol), a substance that can be toxic when absorbed through the skin or ingested. Products manufactured by Eskbiochem identified by the FDA All-Clean Hand Sanitizer (NDC: 74589-002-01) Esk Biochem Hand Sanitizer (NDC: 74589-007-01) CleanCare NoGerm Advanced Hand Sanitizer 75% Alcohol (NDC: 74589-008-04) Lavar 70 Gel Hand Sanitizer (NDC: 74589-006-01) The Good Gel Antibacterial Gel Hand Sanitizer (NDC: 74589-010-10) CleanCare NoGerm Advanced Hand Sanitizer 80% Alcohol (NDC: 74589-005-03) CleanCare NoGerm Advanced Hand Sanitizer 75% Alcohol (NDC: 74589-009-01) CleanCare NoGerm Advanced Hand Sanitizer 80% Alcohol (NDC: 74589-009-01) CleanCare NoGerm Advanced Hand Sanitizer 75% Alcohol (NDC: 74589-009-01) Saniderm Advanced Hand Sanitizer (NDC: 74589-001-01)

DRUG NAME	MANUFACTURER	APPROVAL DATE
Nyvepria™ (pegfilgrastim-apgf Injection, for subcutaneous us	Pfizer Inc.	06/10/2020
THERAPEUTIC CLASS	<u>SAFETY</u>	<u>PROFILE</u>
Hematopoietic growth factor FDA-APPROVE INDICATION(S) Nyvepria™ is indicated to decrease the incidence of infection, as manifested by febrile neutropenia, in patients with non- myeloid malignancies receiving myelosuppressive anti-cancer drugs associated with a clinically significant incidence of febrile neutropenia. <u>DOSAGE AND ADMINISTRATION</u> The recommended dose is 6 mg administered subcutaneously once per chemotherapy cycle. Weight based dosing is recommended for pediatric patients weighing less than 45 kg. See full prescribing information for additional details.	 <u>CONTRAINDICATIONS</u> History of serious allergic reactions to human granulocyte colony-stimulating factors such as pegfilgrastim products or filgrastim products. <u>WARNINGS AND PRECAUTIONS</u> <u>Splenic rupture:</u> Splenic rupture, including fatal cases, can occur following the administration of pegfilgrastim products. Evaluate patients who report left upper abdominal or shoulder pain for an enlarged spleen or splenic rupture. <u>Acute respiratory distress syndrome (ARDS)</u>: ARDS can occur in patients receiving pegfilgrastim products. Evaluate patients who develop fever, lung infiltrates, or respiratory distress. Discontinue in patients with ARDS. <u>Serious allergic reactions:</u> Can occur. Permanently 	 <u>WARNINGS AND PRECAUTIONS</u> <u>Leukocytosis:</u> Can occur. Monitor CBC. <u>Capillary leak syndrome:</u> Can occur. Monitor closely. <u>Potential for tumor growth stimulatory effects on malignant cells</u> <u>Aortitis</u> ADVERSE REACTIONS Most common adverse reactions: bone pain and pain in extremity
DOSAGE FORMS AND STRENGTHS Injection: 6 mg/0.6 mL solution in a single- dose prefilled syringe for manual use only.	 discontinue in patients with serious allergic reactions. <u>Sickle cell crises:</u> Severe and sometimes fatal sickle cell crises can occur in patients with sickle cell disorders receiving pegfilgrastim products. Discontinue if sickle cell crisis occurs. <u>Glomerulonephritis:</u> Can occur. Evaluate and consider dose-reduction or interruption if causality is likely. 	
Orphan status: N/A Biosimilar to Neulasta™ (pegfilgrastim)		POWERED BY ONEARK

	DRUG NAME	1	<u>I</u>	MANUFACTURE	R			ļ	APPROV/	AL DATI	l.	
	<u>Uplizna™ (inebilizumab-cdon)</u> Injection, for intravenous use			Viela Bio		*			06/11,	/2020		
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THERAPEUTIC CLASS

Immunological agent; CD19-directed cytolytic antibody

FDA-APPROVE INDICATION(S)

Uplizna[™] is indicated for the treatment of neuromyelitis optica spectrum disorder (NMOSD) in adult patients who are antiaquaporin-4 (AQP4) antibody positive.

DOSAGE AND ADMINISTRATION

The recommended initial dose is 300 mg intravenous (IV) infusion followed 2 weeks later by a second 300 mg intravenous infusion. For subsequent doses (starting 6 months from the first infusion): single 300 mg IV infusion every 6 months.

Specific assessments and premedication are required prior to first dose and before every infusion. See full prescribing information for details.

DOSAGE FORMS AND STRENGTHS

Injection: 100 mg/10 mL (10 mg/mL) solution in a single-dose vial.

Orphan status: Orphan

SAFETY PROFILE

CONTRAINDICATIONS

- Previous life-threatening reaction to infusion of Uplizna™.
- Active hepatitis B infection.
- Active or untreated latent tuberculosis.

WARNINGS AND PRECAUTIONS

- Infusion reactions: Can cause infusion reactions. Administer pre-medications prior to infusion. Management recommendations for infusion reactions depend on the type and severity of the reaction. Permanently discontinue if a life-threatening or disabling infusion reaction occurs.
- Infections: An increased risk of infections has been observed with other B-cell-depleting therapies. Delay administration in patients with an active infection until the infection is resolved. Vaccination with liveattenuated or live vaccines is not recommended during treatment and after discontinuation, until B-cell repletion.

WARNINGS AND PRECAUTIONS (continuation)

- Immunoglobulin levels: There may be a progressive and prolonged hypogammaglobulinemia or decline in the levels of total and individual immunoglobulins such as immunoglobulins G and M (IgG and IgM) with continued Uplizna™ treatment. Monitor the level of immunoglobulins at the beginning, during, and after discontinuation of treatment until B-cell repletion. Consider discontinuing if a patient develops a serious opportunistic infection or recurrent infections if immunoglobulin levels indicate immune compromise.
- <u>Fetal risk:</u> May cause fetal harm. Advise females of reproductive potential of the potential risk to a fetus and to use an effective method of contraception during treatment and after stopping.

ADVERSE REACTIONS

Most common adverse reactions: urinary tract infection and arthralgia.

DRUG NAME	MANUFACTURER			<u>A</u>	PPROV	AL DATE		
Uplizna™ (inebilizumab-cdon Injection, for intravenous use					06/11/	/2020		
THERAPEUTIC CLASS Immunological agent; CD19-directed	SAFETY PROFIL	<u>E (</u> contin	uation)					
cytolytic antibody	DRUG INTERACTIONS	USE IN S	PECIFIC I	POPULA	TIONS			
FDA-APPROVE INDICATION(S) Uplizna™ is indicated for the treatment of neuromyelitis optica spectrum disorder (NMOSD) in adult patients who are anti- aquaporin-4 (AQP4) antibody positive.	 Immunosuppressive or Immune-Modulating Therapies: Concomitant use of Uplizna[™] with immunosuppressant drugs, including systemic corticosteroids, may increase the risk of infection. Consider the risk of additive immune system effects when co-administering immunosuppressive therapies 	numl whet patie • <u>Fema</u>	pers of pa her they nts. ales of re	atients a respond	studies d aged 65 a d differen <u>ive poten</u> eceiving f	nd over t itly from i <u>tial:</u> Advi	o detern younger ise to use	nine e
DOSAGE AND ADMINISTRATION	with Uplizna™.		-		infusion .			0
The recommended initial dose is 300 mg intravenous (IV) infusion followed 2 weeks later by a second 300 mg intravenous	USE IN SPECIFIC POPULATIONS Pregnancy: May cause fetal harm. 							
infusion. For subsequent doses (starting 6 months from the first infusion): single 300 mg IV infusion every 6 months.	• <u>Lactation</u> : There are no data on the presence of ineblizumab-cdon in human milk, the effects on a			-				
Specific assessments and premedication	breastfed infant, or the effects on milk production. Human IgG is excreted in human milk, and the potential for absorption of Uplizna™ to lead to B-cell							
are required prior to first dose and before every infusion. See full prescribing	depletion in the breastfed infant is unknown. The developmental and health benefits of breastfeeding							
information for details.	should be considered along with the mother's clinical need for Uplizna™ and any potential adverse effects							
DOSAGE FORMS AND STRENGTHS njection: 100 mg/10 mL (10 mg/mL)	 on the breastfed infant from Uplizna™ or from the underlying maternal condition. <u>Pediatric use:</u>Safety and effectiveness have not been 							
solution in a single-dose vial.	established.							
Orphan status: Orphan	(continuation)			0	ph	ar	m	
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FDA-APPROVE INDICATION(S)

Zepzelca[™] is indicated for the treatment of adult patients with metastatic small cell lung cancer (SCLC) with disease progression on or after platinum-based chemotherapy.

DOSAGE AND ADMINISTRATION

The recommended dose is 3.2 mg/m2 administered by intravenous (IV) infusion every 21 days until disease progression or unacceptable toxicity.

DOSAGE FORMS AND STRENGTHS

For injection: 4 mg lyophilized powder in a single-dose vial.

- administration. Initiate treatment only if baseline neutrophil count is ≥ 1,500 cells/mm3 and platelet count is \geq 100,000/mm3 . Withhold, reduce the dose, or permanently discontinue based on severity.
- Hepatotoxicity: Can cause hepatotoxicity. Monitor liver function tests prior to initiating, periodically during treatment and as clinically indicated. Withhold, reduce the dose, or permanently discontinue based on severity.
- Embryo-fetal toxicity: Can cause fetal harm.

ADVERSE REACTIONS

Most common adverse reactions: leukopenia, lymphopenia, fatigue, anemia, neutropenia, increased creatinine, increased alanine aminotransferase, increased glucose, thrombocytopenia, nausea, decreased appetite, musculoskeletal pain, decreased albumin, constipation, dyspnea, decreased sodium, increased aspartate aminotransferase, vomiting, cough, decreased magnesium and diarrhea.

- administration. If the co-administration cannot be avoided, consider dose reduction of Zepzelca[™], if clinically indicated.
- Strong or moderate CYP3A inducers: Co-administration ٠ decreases lurbinectedin systemic exposure, which may reduce Zepzelca[™] efficacy. Avoid co-administration.

USE IN SPECIFIC POPULATIONS

- Pregnancy: Can cause fetal harm. Verify the pregnancy status of females of reproductive potential prior to initiating.
- Females and males of reproductive potential: Advise females and males of reproductive potential of the potential risk to a fetus and to use an effective method of contraception.
- Lactation: Advise not to breastfeed.
- Pediatric use: Safety and effectiveness have not been established

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Orphan status: Orphan





THERAPEUTIC CLASS

Anticonvulsant

FDA-APPROVE INDICATION(S)

Fintepla[™] is indicated for the treatment of seizures associated with Dravet syndrome in patients 2 years of age and older.

DOSAGE AND ADMINISTRATION

The recommended starting and maintenance dose is 0.1 mg/kg twice daily, which can be increased weekly based on efficacy and tolerability.

For patients not on concomitant stiripentol, the max. daily maintenance dose is 0.35 mg/kg twice daily (max. of 26 mg). For patients taking concomitant stiripentol plus clobazam, the max. daily maintenance dose for patients taking these medications is 0.2 mg/kg twice daily (max. of 17 mg).

DOSAGE FORMS AND STRENGTHS

Oral solution: 2.2 mg/mL fenfluramine

Orphan status: Orphan

Controlled substance: CIV

SAFETY PROFILE

CONTRAINDICATIONS

- Hypersensitivity to fenfluramine or any of the excipients.
- Within 14 days of the administration of monoamine oxidase inhibitors due to an increased risk of serotonin syndrome.

WARNINGS AND PRECAUTIONS

- <u>Boxed warning</u>: Valvular heart disease and pulmonary arterial hypertension - There is an association between serotonergic drugs with 5-HT2B receptor agonist activity, including fenfluramine, and valvular heart disease and pulmonary arterial hypertension. Echocardiogram assessments are required before, during, and after treatment. Fintepla[™] is available only through a restricted program called the FINTEPLA REMS.
- <u>Decreased appetite and decreased weight</u>: Advise patients that Fintepla[™] can cause decreased appetite and decreased weight.
- <u>Somnolence, sedation, and lethargy:</u> Can cause somnolence, sedation, and lethargy. Monitor for somnolence and sedation. Advise patients not to drive or operate machinery until they have gained sufficient experience on treatment.

WARNINGS AND PRECAUTIONS (continuation)

- <u>Suicidal behavior and ideation</u>: Antiepileptic drugs (AEDs) increase the risk of suicidal thoughts or behavior in patients taking these drugs for any indication. Patients treated with an AED for any indication should be monitored for the emergence or worsening of depression, suicidal thoughts or behavior, or any unusual changes in mood or behavior.
- <u>Withdrawal of AEDs</u>: As with most AEDs, Fintepla[™] should be gradually withdrawn to minimize the risk of increased seizure frequency and status epilepticus.
- <u>Serotonin syndrome</u>: Advise patients that serotonin syndrome is a potentially life-threatening condition and may occur, particularly with concomitant administration with other serotonergic drugs.
- <u>Increase in blood pressure:</u> Can cause an increase in blood pressure. Monitor blood pressure during treatment.
- <u>Glaucoma:</u> Discontinue therapy in patients with acute decrease in visual acuity or ocular pain.

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THERAPEUTIC CLASS

Anticonvulsant

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DOSAGE AND ADMINISTRATION

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For patients not on concomitant stiripentol, the max. daily maintenance dose is 0.35 mg/kg twice daily (max. of 26 mg). For patients taking concomitant stiripentol plus clobazam, the max. daily maintenance dose for patients taking these medications is 0.2 mg/kg twice daily (max. of 17 mg).

DOSAGE FORMS AND STRENGTHS

Oral solution: 2.2 mg/mL fenfluramine

Orphan status: Orphan

Controlled substance: CIV

SAFETY PROFILE (continuation)

ADVERSE REACTIONS

Most common adverse reactions: decreased appetite; somnolence, sedation, lethargy; diarrhea; constipation; abnormal echocardiogram; fatigue, malaise, asthenia; ataxia, balance disorder, gait disturbance; blood pressure increased; drooling, salivary hypersecretion; pyrexia; upper respiratory tract infection; vomiting; decreased weight; fall; status epilepticus.

DRUG INTERACTIONS

- Stiripentol Plus Clobazam: Co-administration of Fintepla[™] with stiripentol plus clobazam, with or without valproate, increases fenfluramine plasma concentrations and decreases its metabolite, norfenfluramine, because of the inhibition of the metabolism of fenfluramine. Dose adjustment is required for patients taking stiripentol plus clobazam.
- Strong CYP1A2 and CYP2B6 inducers: Coadministration with rifampin or a strong CYP1A2 and CYP2B6 inducer will decrease fenfluramine plasma concentrations, which may lower the efficacy of Fintepla[™]. Consider an increase in Fintepla[™] dosage when co-administered with rifampin or a strong CYP1A2 and CYP2B6 inducer.

(continuation)

DRUG INTERACTIONS (continuation)

- Serotonin receptor antagonists: Cyproheptadine and potent 5-HT1A, 5-HT1D, 5-HT2A, and 5-HT2C serotonin receptor antagonists may decrease the efficacy of Fintepla[™]. If cyproheptadine or potent 5-HT1A, 5-HT1D, 5-HT2A, or 5-HT2C serotonin receptor antagonists are co-administered, patients should be monitored appropriately.
- <u>Serotonergic drugs:</u> Concomitant administration of Fintepla[™] and drugs (e.g. SSRIs, SNRIs, TCAs, MAO
- inhibitors, trazodone, etc.), over-the-counter medications (e.g. dextromethorphan), or herbal supplements (e.g. St. John's Wort) that increase serotonin may increase the risk of serotonin syndrome. Concomitant use with MAOIs is contraindicated. Use caution in patients taking other medications that increase serotonin.

USE IN SPECIFIC POPULATIONS

- <u>Pregnancy</u>: There is a pregnancy exposure registry that monitors pregnancy outcomes in women exposed to AEDs.
- <u>Pediatric use:</u> Safety and effectiveness in patients less than 2 years of age have not been established.

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THERAPEUTIC CLASS

FDA-APPROVE INDICATION(S)

Doiolvi[™] is indicated as a source of calories and fatty acids for the treatment of pediatric and adult patients with molecularly confirmed long-chain fatty acid oxidation disorders (LC-FAOD).

DOSAGE AND ADMINISTRATION

The recommended target daily dosage is up to 35% of the patient's total prescribed DCI divided into at least four doses and administered orally diluted with foods, liquids, or formula via a silicone or polyurethane feeding tube.

DOSAGE FORMS AND STRENGTHS

Orphan status: Orphan

Oral Liquid, 100% w/w of triheptanoin

Nutritive agent; Medium-chain triglyceride

and functionality can degrade over time depending on usage and environmental conditions. Regularly monitor the tube to ensure proper functioning and

integrity. Intestinal malabsorption in patients with pancreatic insufficiency: Pancreatic enzymes hydrolyze triheptanoin and release heptanoate as medium-chain fatty acids in the small intestine. Low or absent pancreatic enzymes may reduce absorption of Dojolvi™. Avoid administration in patients with pancreatic insufficiency.

Feeding tube dysfunction: Feeding tube performance

ADVERSE REACTIONS

CONTRAINDICATIONS

WARNINGS AND PRECAUTIONS

None

Most common adverse reactions: abdominal pain, diarrhea, vomiting, and nausea.

SAFETY PROFILE

DRUG INTERACTIONS

Pancreatic lipase inhibitors: Co-administration of triheptanoin with a pancreatic lipase inhibitor (e.g. orlistat) may reduce exposure to the triheptanoin metabolite, heptanoate, and reduce the clinical effect of triheptanoin. Avoid co-administration due to potential for reduced clinical effect of Dojolvi[™].

USE IN SPECIFIC POPULATIONS

- Pediatric use: The safety and effectiveness have been established in pediatric patients aged birth and older
- Geriatric use: Clinical studies did not include sufficient numbers of patients aged 65 and over to determine whether they respond differently from younger patients.

(continuation) – IF APPLY



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

Drug name / Manufacturer	Therapeutic class	Indication(s)	Date	Comments
Semglee™ (insulin glargine) Injection / Mylan N.V. and Biocon Ltd.	Antidiabetic; Long- acting human insulin analog	To improve glycemic control in adults and pediatric patients with type 1 diabetes mellitus and in adults with type 2 diabetes mellitus	06/11/2020	Semglee [™] is a new formulation of insulin glargine, which has an identical amino acid sequence to Lantus [™] (insulin glargine) and is approved for the same indications. Orphan status: N/A
Tivicay PD™ (dolutegravir) Tablets for Oral Suspension / ViiV Healthcare	Antiviral; Integrase strand transfer inhibitor (INSTI)	In combination with other antiretroviral agents for the treatment of HIV-1 infection in pediatric patients (treatment-naïve or -experienced but INSTI- naïve) aged at least 4 weeks and weighing at least 3 kg	06/12/2020	 Tivicay PD™ is a new formulation of dolutegravir in tables for oral suspension for use in pediatric patients. Dolutegravir was already available as a tablet formulation, branded Tivicay™. However, this formulation should not be used in pediatric patients weighing 3 to 14 kg. Orphan status: N/A
Dupixent [™] (dupilumab) Injection / Sanofi and Regeneron Pharmaceuticals, Inc.	Interleukin-4 receptor alpha antagonist	 For the treatment of patients aged 6 years and older with moderate-to-severe atopic dermatitis whose disease is not adequately controlled with topical prescription therapies or when those therapies are not advisable As an add-on maintenance treatment in patients with moderate-to-severe asthma aged 12 years and older with an eosinophilic phenotype or with oral corticosteroid dependent asthma As an add-on maintenance treatment in adult patients with inadequately controlled chronic rhinosinusitis with nasal polyposis (CRSwNP) 	06/18/2020	 The FDA approved a new dosage form of Dupixent[™] in pre-filled pen, which is expected to provide a more convenient option of administration. Dupixent[™] was already available in the market as a pre-filled syringe, and this dosage form will continue to be available for use in a clinic or at home by self-administration. Of important note, this pre-filled pen is only approved for use in adults and adolescents aged 12 years and older and both methods of administration (by syringe and by pen) require training by a healthcare professional. Orphan status: N/A
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New FDA Approved Formulations, Dosage Forms, Combination Products and Other Differences

Drug name / Manufacturer	Therapeutic class	Indication(s)	Date	Comments
Lyumjev™ (insulin lispro-aabc) Injection / Eli Lilly and Company	Antidiabetic; Rapid- acting human insulin analog	To improve glycemic control in adults with diabetes mellitus	06/15/2020	Lyumjev [™] is a novel formulation of insulin lispro, developed to speed the absorption of insulin into the blood stream.
				 Insulin lispro was already available in the market as brand Humalog[™] and Admelog[™] as well as an authorized brand alternative (ABA) to Humalog[™]. Humalog[™] and the ABA are indicated to improve glycemic control in adults
				 and children with diabetes mellitus. Admelog™ is indicated to improve glycemic control in adults and pediatric
				patients 3 years and older with type 1 diabetes mellitus and adults with type 2 diabetes mellitus.
				Orphan status: N/A
<u>Gimoti™</u> (metoclopramide) Nasal	Dopamine-2 (D2) antagonist	For the relief of symptoms of acute and recurrent diabetic	06/19/2020	Gimoti [™] is the first intranasal formulation of metoclopramide.
Spray / Evoke Pharma,	antagoniot	gastroparesis in adults		Oral metoclopramide is available generically as an orally disintegrating tablet
Inc.				 (ODT), solution, and tablet. The ODT, solution, and tablet formulations are approved for symptomatic gastroesophageal reflux disease, and diabetic gastroparesis.
				Orphan status: N/A
<u>Mycapssa™ (octreotide)</u> <u>Delayed-Release</u> <u>Capsules</u> / Chiasma, Inc.	Endocrine and metabolic agent; Somatostatin analog	Long-term maintenance treatment in acromegaly patients who have responded to and tolerated treatment with octreotide or lanreotide	06/26/2020	Mycapssa [™] is a new oral formulation of the approved somatostatin analog octreotide. Mycapssa [™] is the first oral somatostatin analog approved by the FDA and the first product approved by the FDA utilizing Chiasma's Transient Permeability Enhancer (TPE [®]) technology.
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New FDA Approved Formulations, Dosage Forms, Combination Products and Other Differences

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New FDA Approved Indications

Recarbrio™ (imipenem, cilastatin, and relebactam) for njection / Merck Opdivo™ (nivolumab) Injection / Bristol-Myers Squibb Company	Anti-infective agent; Antibacterial Antineoplastic agent;	Treatment of complicated urinary tract infections (cUTI), complicated intra- abdominal infections (cIAI)	Treatment of hospital-acquired bacterial pneumonia and ventilator-associated	06/04/2020
Bristol-Myers Squibb	Antineoplastic agent:		bacterial pneumonia (HABP/VABP)	
	Programmed death receptor- 1 (PD-1) blocking antibody	Treatment of advanced melanoma, advanced non-small cell lung cancer, advanced small cell lung cancer, advanced renal cell carcinoma, classical Hodgkin lymphoma, advanced squamous cell carcinoma of the head and neck, urothelial carcinoma, MSI-H or dMMR metastatic colorectal cancer, and hepatocellular carcinoma	Treatment of patients with unresectable advanced, recurrent or metastatic esophageal squamous cell carcinoma (ESCC) after prior fluoropyrimidine- and platinum-based chemotherapy	06/10/2020
Gardasil 9™ (human papillomavirus 9-valent vaccine, recombinant) njection / Merck	Vaccine	In females 9 through 45 years of age: For the prevention of cervical, vulvar, vaginal, and anal caused by human papillomavirus (HPV) Types 16, 18, 31, 33, 45, 52, and 58; cervical, vulvar, vaginal, and anal	For the prevention of oropharyngeal and other head and neck cancers caused by HPV Types 16, 18, 31, 33, 45, 52, and 58	06/12/2020
		precancerous or dysplastic lesions caused by HPV Types 6, 11, 16, 18, 31, 33, 45, 52, and 58; and genital warts caused by HPV Types 6 and 11		
		In males 9 through 45 years of age: For the prevention of anal cancers caused by HPV Types 16, 18, 31, 33, 45, 52, and 58; anal		
		precancerous or dysplastic lesions caused by HPV Types 6, 11, 16, 18, 31, 33, 45, 52, and 58; and genital warts caused by HPV Types 6 and 11		
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New FDA Approved Indications

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Keytruda' for Injecti		orolizumab) erck		Antineopla Programm 1 (PD-1) blo	ed death	n receptor-	lung and	; cancer, s neck squa	mall cell l amous ce		er, head na, classical	•	adult and unresect	d pediatrio able or m	c patient etastatic	tumor	06/16/20 06/24/20 06/29/20	20;
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							cano	cer, gastrie	c cancer,	ite instabi esophage	al cancer,		approve		t have p	rogressed		
							Mer	kel cell ca	rcinoma,		rcinoma, carcinoma,		have no	g prior tre satisfacto	ry altern			
							and	endomet	rial carcir	ioma		•	As mono		or the tre	eatment of		
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Cosentyx ¹ Injection	/ Novari		•	Dermatolo Antipsoriat interleukin	tic; <mark>S</mark> elec	tive				soriasis, ai tic arthriti			eatment o ondyloartl	f non-rad	iographi	c axial	06/16/20	20
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New FDA Approved Indications

Drug name / Manufacturer		Therapeutic class	Previous indication(s)	New indication(s)	Date	
Tazverik™ (tazemetostat) Tablets / Epizyme, Inc.		Antineoplastic agent; Methyltransferase inhibitor	Treatment of adults and pediatric patients aged 16 years and older with metastatic or locally advanced epithelioid sarcoma not eligible for complete resection	 Treatment of: Adult patients with relapsed or refractory follicular lymphoma whose tumors are positive for an EZH2 mutation as detected by an FDA- 	06/18/2020	•
				 approved test and who have received at least 2 prior systemic therapies Adult patients with relapsed or refractory follicular lymphoma who have no satisfactory alternative treatment options 		
Crysvita™ (burosumab-twza) Injection / Ultragenyx Pharmaceutical Inc.	5 6 6	Endocrine and metabolic agent; Fibroblast growth factor 23 (FGF23) blocking antibody	Treatment of X-linked hypophosphatemia (XLH)	Treatment of FGF23-related hypophosphatemia in tumor-induced osteomalacia (TIO) associated with phosphaturic mesenchymal tumors that cannot be curatively resected or localized in adults and pediatric patients 2 years of age and older	06/18/2020	
Xpovio™ (selinexor) Tablets / Karyopharm Therapeutics Inc		Antineoplastic agent; Selective Inhibitor of Nuclear Export (SINE) XPO1 antagonist	Treatment of patients adult patients with multiple myeloma (RRMM)	Treatment of relapsed or refractory diffuse large B-cell lymphoma (DLBCL) not otherwise specified, including DLBCL arising from follicular lymphoma, after at least two lines of systemic therapy	06/22/2020	
Bavencio™ (avelumab) Injection /EMD Serono, Inc.		Antineoplastic agent; programmed death ligand-1 (PD-L1) blocking antibody	Treatment of patients with metastatic Merkel cell carcinoma (MCC); patients with advanced or metastatic urothelial carcinoma; and in combination with axitinib for patients with advanced renal cell carcinoma	Maintenance treatment of patients with locally advanced or metastatic urothelial carcinoma (UC) that has not progressed with first-line platinum-containing chemotherapy	06/30/2020	

New First Time Generic Drug Approval

	sol Propi e Lotion	onate Toj			The	rapeutic	Class			D	• -		-		6				
	e Lotion		ug name / Manufacturer							Da	te -		. (ieneric	tor:				
				on 0.05%	Cortic	costeroid	<u>.</u>		A.	06/0	03/2020	5	e U	ltravate L	otion	<u>.</u>		с.	*)
Betameth				al Spray	Cortic	costeroid				06/:	17/2020		S	ernivo					
Methylph Release O 17.3 mg a	ienidate Drally Dis	Hydrochl integratir	oride Extension ng Tablets	8.6 mg,		al nervous ietamine	system st	imulant;		06/:	19/2020		c	otempla >	(R-ODT				
Pantopraz				elease	Proto	n pump inl	nibitor			06/3	30/2020		P	rotonix fo	r Delayed	-Release	Oral Susp	ension	
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Drug r	name /	Manuf	acturer	Da	te 🚬		Indicatior	n(s)		Com	ments	2×						Impac	ct 🔒
	e (estetrol Pharma (pirenone)	06/24/2020 Treatment for: Contraception						E4/DRSP (estetrol and drospirenone) is a novel combined hormonal oral contraceptive pill in development for the prevention of								Moderate		
/ Wayne	Pharma	Sroup Lin	iiteu							pregna		ptive pli	i in dev	elopmen		le prever			
										FDA a	ccepted I	NDA for E	4/DRSP.						
Casimers Inc.	sen / Sare	apeutics,	06/26/2020 Treatment for: Duchenne Muscular Dystrophy							Casimersen is a phosphorodiamidate morpholino oligomer in development for the treatment of patients with Duchenne muscular									
										dystro	phy (DN	1D) who l		etic muta		it are ame			
						~				Sarept	a Therap	peutics co	mpletes s	ubmissio	n of MD/	A for casim	iersen.		
Udenafil	/ Mezzio	Co. Ltd.	06/30/2020 Treatment for: Single Ventricle Heart Disease							Udenafil is a long acting, highly selective phosphodiesterase-5 inhibitor in development for the treatment of patients who have								gh 🔹	
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