

New Drug Update August 2023

EMPAA

August 16, 2023 Bethany Holderread, Principal, Pharm.D. Boston, Massachusetts



Statement of Disclosure

- ✓ I have no relevant conflicts of interest to report
- ✓ This presentation will include a discussion of unlabeled or investigational use of therapies that have not yet been approved by the FDA
- This presentation will focus on therapies approved by the FDA within the last year; this is not an all-inclusive review of new drugs approved in the past year



Learning Objectives

At the conclusion of this educational activity, participants will be able to:

Describe important considerations for therapies approved by the FDA within the last year regarding patient selection, dose, and administration.

List notable therapies approved by the FDA within the last year and their indications for use.



Identify novel therapies with limited therapeutic alternatives.

Learning Assessment Questions

True or False?

Roctavian (valoctocogene roxaparvovec) is indicated for Duchenne muscular dystrophy (DMD).

Which of the following are important considerations for Leqembi (lecanemab) regarding patient selection?

- 1. Severity of dementia
- 2. Presence of amyloid beta
- 3. Qualified prescriber participating in a registry
- 4. All of the above

True or False?

Jesduvroq (daprodustat) has a Boxed Warning for thrombotic vascular events, including major adverse cardiovascular events (MACE).

Our Discussion Today

- 1. Overview of FDA New Drug Approval Patterns
- 2. Gene and Cell Therapy Products
- 3. Oncology
- 4. Neurology
- 5. Diabetes/Cardiology/Nephrology
- 6. Rare Diseases
- 7. Other Conditions
- 8. Immunomodulators
- 9. Biosimilars



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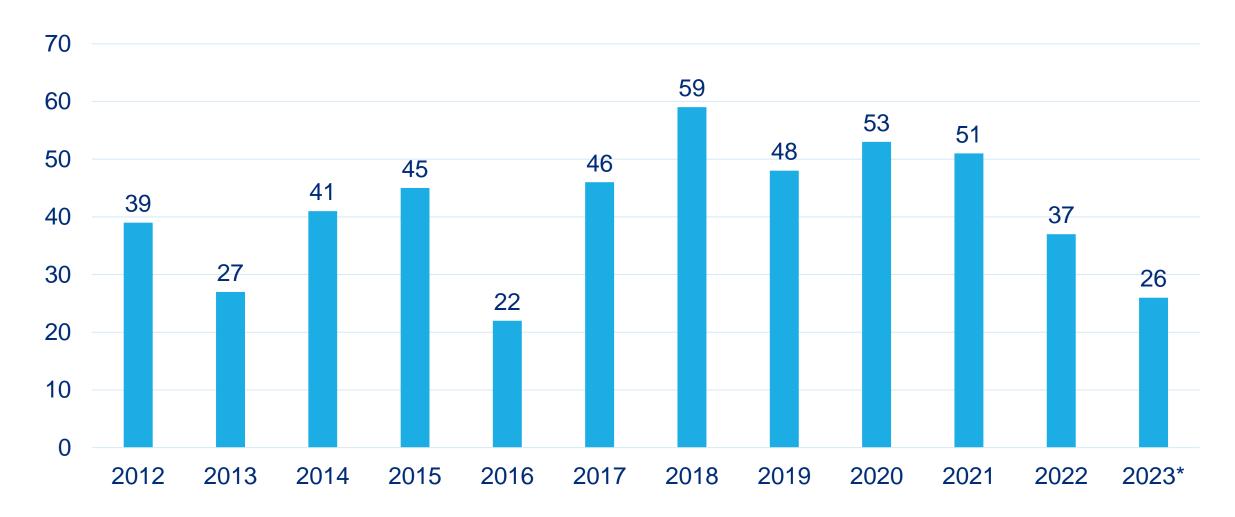
1 Overview of FDA New Drug Approval Patterns

Random State Fact 1:

In Alabama, it's illegal to put an ice cream cone in your back pocket.



FDA Approval Trends: New Molecular Entities



FDA. New Drug Therapy Approvals. https://www.fda.gov/drugs/development-approval-process-drugs/new-drugs-fda-cders-new-molecular-entities-and-new-therapeutic-biological-products. Accessed 07/11/2023.

^{*} As of 07/11/2023

Summary of 2022 Novel Approvals

At Least One Expedited Development or Review Method: 65%

First-in-Class 54%

Orphan 54%

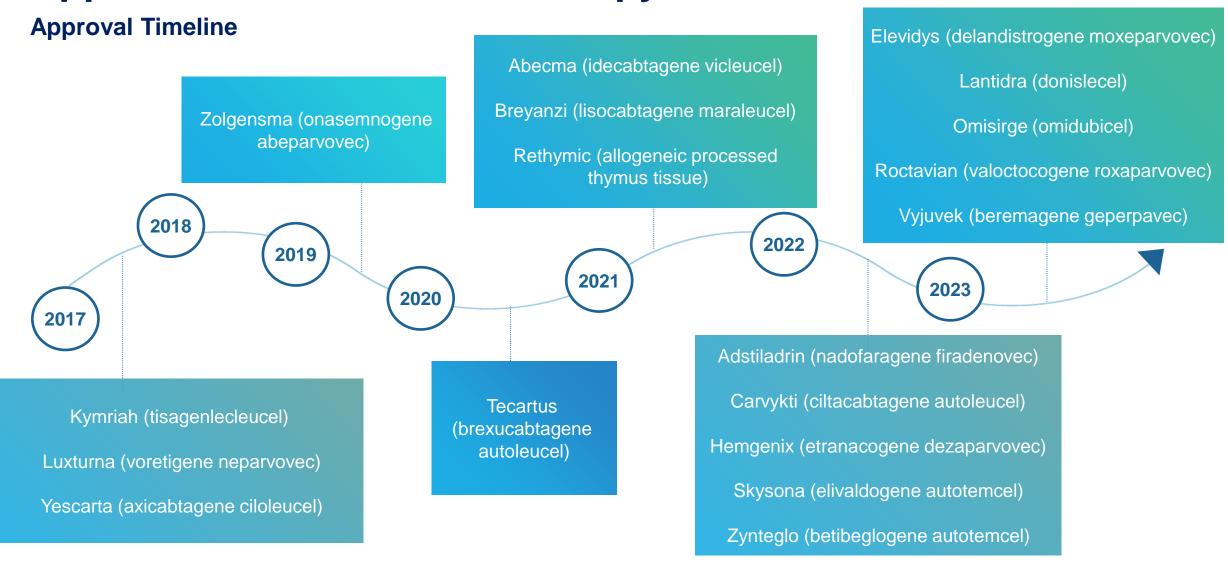
Fast Track 32%

Breakthrough Therapy 35%

Priority Review 57%

Accelerated Approval 16%

Approved Gene and Cell Therapy Products

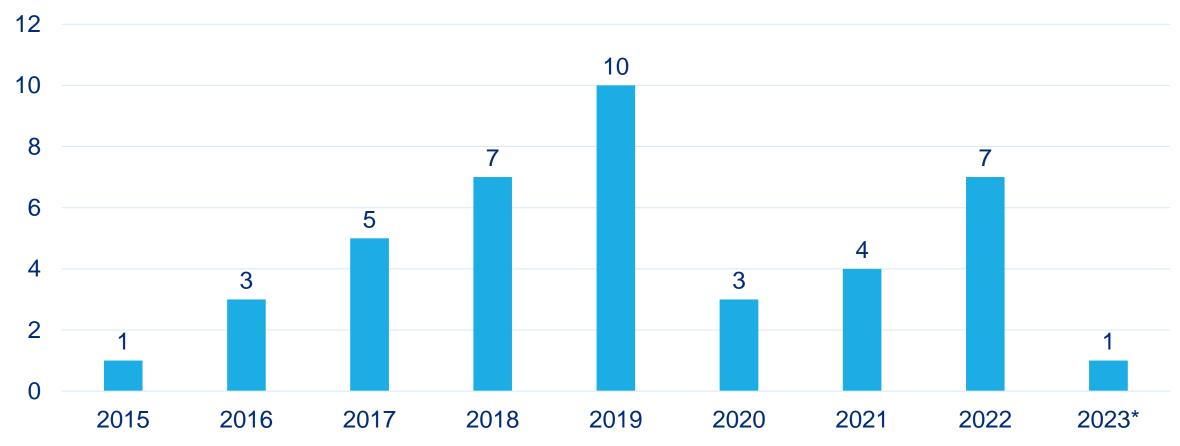


FDA. Approved Cellular and Gene Therapy Products. https://www.fda.gov/vaccines-blood-biologics/cellular-gene-therapy-products/approved-cellular-and-gene-therapy-products Accessed 07/11/2023.

NOTE: Imlygic (talimogene laherparepvec) and Provenge (sipuleucel-T) not included on timeline

Biosimilar Approvals

FDA has approved a total of 41 biosimilar products for 11 different reference products since 2015



FDA. FDA-Approved Biosimilar Products. https://www.fda.gov/drugs/biosimilars/biosimilar-product-information. Accessed 07/11/2023. *As of 07/11/2023.

2 Gene and Cell Therapy Products

Random State Food Fact 2:

In Gainesville, Georgia, it's illegal to eat a chicken sandwich with a fork.



2nd Half 2022-2023 Gene and Cell Therapy Products

Drug Name	Approval Date	Indication
Elevidys (delandistrogene moxeparvovec)	June 2023	Duchenne muscular dystrophy (DMD)
Lantidra (donislecel)	June 2023	Type 1 diabetes
Roctavian (valoctocogene roxaparvovec)	June 2023	Hemophilia A
Vyjuvek (beremagene geperpavec)	May 2023	Wounds in patients with dystrophic epidermolysis bullosa
Omisirge (omidubicel)	April 2023	Following myeloablative conditioning to reduce the time to neutrophil recovery
Adstiladrin (nadofaragene firadenovec)	Dec 2022	Bacillus Calmette-Guérin unresponsive non- muscle invasive bladder cancer
Hemgenix (etranacogene dezaparvovec)	Nov 2022	Hemophilia B
Skysona (elivaldogene autotemcel)	Sept 2022	Cerebral adrenoleukodystrophy
Zynteglo (betibeglogene autotemcel)	Aug 2022	Transfusion-dependent β-thalassemia

Roctavian (valoctocogene roxaparvovec)

Indication	Adult males with severe Hemophilia A	
Market Landscape	 Estimated 30,000 to 33,000 people with hemophilia in the U.S. with the majority having hemophilia A Estimated 2,500 patients eligible to receive Roctavian Patients currently use high-cost prophylactic factor VIII or Hemlibra (emicizumab) 	
Clinical Studies	112 patients experienced a mean annualized bleed rate (ABR) reduction of 52% through the end of follow-up (median of 3 years)	
Dosing	One-time IV infusion	
Important Considerations	 Baseline antibodies to adeno-associated virus serotype 5 (AAV5) testing Baseline inhibitor testing Baseline liver testing and follow-up Corticosteroids required in majority of patients 	
Cost	\$2.9 million for the one-time treatment	

Lantidra (donislecel)

Indication	Type 1 diabetes (T1D)		
Market Landscape	Target population: patients unable to achieve target blood glucose levels because of frequent episodes of severe hypoglycemia despite intervention		
Clinical Studies	 30 patients with T1D and hypoglycemia unawareness Patients received 1 to 3 infusions 4 subjects (13.3%) were insulin independent <1 year, 12 subjects (36.7%) for 1 to 5 years, and 9 subjects (33.3%) for > 5 years 		
Dosing	Single infusion into the hepatic portal vein (may require up to 3 infusions)		
Important Considerations	 First allogeneic cellular therapy approved for T1D Procedure for infusion complications Immunosuppressives needed to maintain the islet cell viability 		
Cost	Not yet available		

Elevidys (delandistrogene moxeparvovec)

Indication	Duchenne muscular dystrophy (DMD)		
Market Landscape	 Estimated U.S. prevalence ranges between 10,000 and 15,000 males First gene therapy for ambulatory DMD patients 4-5 years of age Current treatment consists of exon skipping therapies and glucocorticoids 		
Clinical Studies	 41 patients aged 4 to 7 years with mutation between exons 18 to 58 Results found change in dystrophin levels; ambulatory data conflicting 		
Dosing	One-time, single IV dose		
Important Considerations	 Approval in a narrower population, rather than age range of patients studied in clinical trials Contraindicated in patients with deletion in exon 8 or exon 9 in DMD gene Baseline testing for the presence of anti-AAVrh74 Liver monitoring, myocarditis, and immune-mediated myositis 		
Cost	\$3.2 million for one-time treatment		

3 Oncology

Random State Food Fact 3:

Kansas really is flatter than a pancake: Scientists proved it when they compared the topography of Kansas against that of a pancake from IHOP.



Novel 2023 Oncology Approvals

Drug Name	Approval Date	Indication
Columvi (glofitamab)	June 2023	Diffuse large B-cell lymphoma (DLBCL)
Posluma (flotufolastat F 18)	May 2023	To use with positron emission tomography imaging in prostate cancer
Epkinly (epcoritamab)	May 2023	Relapsed or refractory DLBCL
Zynyz (retifanlimab)	Mar 2023	Metastatic or recurrent Merkel cell carcinoma
Orserdu (elacestrant)	Jan 2023	Advanced or metastatic breast cancer
Jaypirca (pirtobrutinib)	Jan 2023	Relapsed or refractory mantle cell lymphoma (MCL)

Novel 2nd Half 2022 Oncology Approvals

Drug Name	Approval Date	Indication
Lunsumio (mosunetuzumab)	Dec 2022	Relapsed or refractory follicular lymphoma
Krazati (adagrasib)	Dec 2022	Non-small cell lung cancer
Rezlidhia (olutasidenib)	Dec 2022	Relapsed or refractory acute myeloid leukemia
Elahere (mirvetuximab soravtansine)	Nov 2022	Recurrent ovarian cancer
Tecvayli (teclistamab)	Oct 2022	Relapsed or refractory multiple myeloma
Imjudo (tremelimumab)	Oct 2022	Unresectable hepatocellular carcinoma
Lytgobi (futibatinib)	Sept 2022	Intrahepatic cholangiocarcinoma
Rolvedon (eflapegrastim)	Sept 2022	Reduce infections associated with febrile neutropenia

Jaypirca (pirtobrutinib)

Indication	Relapsed or refractory mantle cell lymphoma (MCL) after at least 2 lines of therapy, including a Bruton's tyrosine kinase inhibitor (BTKi)		
Market Landscape	 MCL is a form of non-Hodgkin lymphoma (NHL), comprising 3 to 10% of NHL cases in the United States (estimated 80,550 new cases of NHL) Mostly affects males between 60 and 70 years of age Alternative therapies include Imbruvica (ibrutinib), Calquence (acalabrutinib), Brukinsa (zanubrutinib), and Tecartus (brexucabtagene autoleucel) 		
Clinical Studies	 Clinical trial included 120 patients with MCL previously treated with a BTKi Overall response rate 50%; included a complete response rate of 13% Median time to response 1.8 months; median duration of response 8.3 months 		
Dosing	200 mg orally once daily		
Important Considerations	 First non-covalent BTKi which could re-establish BTK inhibition in patients previously treated with a covalent BTKi Taken until disease progression or unacceptable toxicity 		
Cost	\$255,500 annually		

4 Neurology

Random State Food Fact 4:

Up until the late 1990s, in Lehigh, Nebraska, it was illegal to sell donut holes.



Novel 2nd Half 2022-2023 Neurology Approvals

Drug Name	Approval Date	Indication
Qalsody (tofersen)	April 2023	Amyotrophic lateral sclerosis (ALS) with SOD1 gene mutation
Daybue (trofinetide)	Mar 2023	Rett syndrome
Zavzpret (zavegepant)	Mar 2023	Migraine
Skyclarys (omaveloxolone)	Feb 2023	Friedrich's ataxia (FA)
Leqembi (lecanemab)	Jan 2023	Alzheimer's disease (AD)
Briumvi (ublituximab)	Dec 2022	Relapsing forms of multiple sclerosis
Relyvrio (sodium phenylbutyrate/taurursodiol)	Sept 2022	ALS
Amvuttra (vutrisiran)	Jun 2022	Polyneuropathy of hereditary transthyretin- mediated amyloidosis

Leqembi (lecanemab)

Indication	Alzheimer's disease (AD) in patients with mild cognitive impairment or mild dementia stage of disease	
Market Landscape	 About 5 million Americans 65 years of age and older have mild cognitive impairment due to AD Second FDA-approved anti-amyloid monoclonal antibody for AD following Aduhelm (aducanumab) in 2021; initial uptake of therapies limited by CMS national coverage determination (NCD) 	
Clinical Studies	Phase 3 CLARITY AD trial: Leqembi slowed the rate of cognitive and functional decline by 27% at 18 months, compared with placebo	
Dosing	10 mg/kg administered IV every 2 weeks	
Important Considerations	 CMS NCD changed upon traditional approval Warning regarding amyloid-related imaging abnormalities (ARIA) Institute for Clinical and Economic Review (ICER)'s cost-effective annual list price range: \$8,500 to \$20,600 	
Cost	\$26,500 per year, based on an average patient weight of 75 kg	

Skyclarys (omaveloxolone)

Indication	Friedrich's ataxia (FA)		
Market Landscape	 Estimated 5,000 patients with diagnosed FA in the United States Only available treatments for FA prior to Skyclarys were supportive therapies that address specific symptoms 		
Clinical Studies	 MOXIe Part 2 study: Skyclarys demonstrated –2.41-point difference on modified Friedreich's Ataxia Rating Scale compared to placebo Results indicate less impairment with Skyclarys treatment potentially resulting in approximately 2 years of disease progression 		
How Supplied	50 mg oral capsules		
Dosing	150 mg by mouth once daily		
Important Considerations	 First disease-specific therapy for FA Liver monitoring 		
Cost	Wholesale acquisition cost (WAC) of \$375,136 annually based on a dose of 150mg daily		

5 Diabetes/ Cardiology/ Nephrology

Random State Food Fact 5:

There is more shrimp consumed in Las Vegas every day (60,000 lbs!) than the rest of the country combined.



Novel 2nd Half 2022-2023 Diabetes/ Cardiology/ Nephrology Approvals

Drug Name	Approval Date	Indication
Inpefa (sotagliflozin)	May 2023	Heart failure
Filspari (sparsentan)	Feb 2023	Proteinuria in adults with primary immunoglobulin A nephropathy
Jesduvroq (daprodustat)	Feb 2023	Anemia caused by chronic kidney disease (CKD) in adults on dialysis
Brenzavvy (bexagliflozin)	Jan 2023	Type 2 diabetes
Tzield (teplizumab)	Nov 2022	Delay the onset of stage 3 type 1 diabetes

Jesduvroq (daprodustat)

Indication	Anemia caused by chronic kidney disease (CKD) in adults on dialysis		
Market Landscape	 More than 500,000 patients in the United States receiving dialysis Will likely compete with erythropoiesis-stimulating agents (ESAs) Two other oral hypoxia-inducible factor prolyl hydroxylase (HIF-PH) inhibitors were expected prior to Jesduvroq but received complete response letters (CRLs) 		
Clinical Studies	 Jesduvroq noninferior to ESAs in both dialysis-dependent (DD) and non-dialysis-dependent (NDD) patients Jesduvroq only approved for the DD population, due to safety concerns 		
How Supplied	1 mg, 2 mg, 4 mg, 6 mg, and 8 mg oral tablets		
Dosing	Orally once daily		
Important Considerations	 Boxed Warning for thrombotic vascular events, including major adverse cardiovascular events (MACE) First oral treatment for anemia caused by CKD CMS' Transitional Drug Add-on Payment Adjustment (TDAPA) implications 		
Cost	Not yet available		

6 Rare Diseases

Random State Food Fact 6:

When Teddy Roosevelt visited Tennessee in 1907, he was served Maxwell House coffee and came up with the phrase, "good 'til the last drop."



Novel 2nd Half 2022-2023 Rare Disease Approvals

Drug Name	Approval Date	Indication
Ngenla (somatrogon)	June 2023	Growth failure due to inadequate secretion of endogenous growth hormone
Elfabrio (pegunigalsidase alfa)	May 2023	Fabry disease (FD)
Joenja (leniolisib)	Mar 2023	Activated phosphoinositide 3-kinase delta syndrome
Lamzede (velmanase alfa)	Feb 2023	Non-central nervous system manifestations of alpha-mannosidosis
Xenpozyme (olipudase alfa)	Aug 2022	Acid Sphingomyelinase Deficiency

Elfabrio (pegunigalsidase alfa)

Indication	Adults with confirmed Fabry disease (FD)		
Market Landscape	 Type 1 affects approximately 1 in 40,000 to 60,000 males; Type 2, the most common phenotype by 3- to 10-fold, may affect up to 1 in 1,500 to 4,000 males Current treatments are IV enzyme replacement therapy (ERT), Fabrazyme (agalsidase beta) and Galafold (migalastat), an oral chemical chaperone 		
Clinical Studies	 Met noninferiority margin with agalsidase beta in a head-to-head study in treatment-experienced adults with FD Median eGFR slope with Elfabrio was -2.514 mL/min/1.73 m²/year vs2.155 mL/min/1.73 m²/year with Fabrazyme 		
How Supplied	Single-dose vial		
Dosing	1 mg/kg given via IV infusion every 2 weeks		
Important Considerations	 Elfabrio is a PEGylated ERT and considered a "biobetter" of Fabrazyme Single-dose gene therapy for FD being studied 		
Cost	Approximately \$430,000 annually for an adult patient		

7 Other Conditions

Random State Food Fact 7:

Vermont loves syrup so much that when McDonald's debuted their Fruit and Maple Oatmeal (not made with real maple syrup), Vermont's Agency of Agriculture took official action to have McDonald's change the item for all 28 Vermont locations to add a tablespoon of pure Vermont maple syrup.



Novel 2023 Other Approvals

Drug Name	Approval Date	Indication
Litfulo (ritlecitinib)	June 2023	Severely patchy hair loss
Paxlovid (nirmatrelvir, ritonavir)	May 2023	COVID-19
Xacduro (sulbactam, durlobactam)	May 2023	Hospital-acquired bacterial pneumonia and ventilator-associated bacterial pneumonia caused by Acinetobacter baumannii-calcoaceticus complex
Miebo (perfluorhexyloctane)	May 2023	Signs and symptoms of dry eye disease (DED)
Veozah (fezolinetant)	May 2023	Hot flashes caused by menopause
Rezzayo (rezafungin)	Mar 2023	Candidemia and invasive candidiasis

Novel 2nd Half 2022 Other Approvals

Drug Name	Approval Date	Indication
NexoBrid (anacaulase)	Dec 2022	Eschar in adults with thermal burns
Xenoview (hyperpolarized Xe-129)	Dec 2022	To evaluate pulmonary function and imaging
Sunlenca (lenacapavir)	Dec 2022	HIV infections that cannot be treated with other available treatments
Rebyota (fecal microbiota, live)	Nov 2022	Recurrent Clostridioides difficile infection (CDI)
Omlonti (oomidenepag isopropyl)	Sept 2022	Open-angle glaucoma or ocular hypertension
Terlivaz (terlipressin)	Sept 2022	Hepatorenal syndrome

Rebyota (fecal microbiota, live)

Indication	Recurrent CDI
Market Landscape	 500,000 patients with CDI in the U.S. each year; 15% to 30% experience reoccurrence with 40% of those experiencing a 2nd recurrence Guidelines suggest Zinplava (bezlotoxumab) for 1st recurrence of CDI Fecal microbiota transplantation (FMT) is recommended in patients experiencing 2 or more recurrences of CDI
Clinical Studies	 262 adults with ≥ 1 CDI recurrences Absence of CDI diarrhea 8 weeks after treatment: 70.6% with Rebyota vs. 57.5% with placebo >90% remained free of CDI through 6 months; sustained clinical response at 6 months not statistically significant between Rebyota (65.5%) and placebo (56.5%)
How Supplied	150 mL single-dose rectal suspension
Dosing	Single-rectal administration 24 to 72 hours after the last dose of antibiotics
Important Considerations	 1st FDA approved microbiome therapy Manufactured from human fecal matter
Cost	\$9,000 per dose

Miebo (perfluorhexyloctane)

Indication	Signs and symptoms of dry eye disease (DED)		
Market Landscape	 DED diagnosed in about 16.4 million adults in the United States Will compete with other topical DED products including Restasis and generics, Xiidra (lifitegrast), and Tyrvaya (varenicline solution) nasal spray 		
Clinical Studies	 Two Phase 3 clinical trials (GOBI and MOJAVE), included a total of 1,217 patients with DED: Miebo consistently met primary endpoints of total corneal fluorescein staining and eye dryness score 		
How Supplied	Multiple-dose ophthalmic solution		
Dosing	One drop four times daily		
Important Considerations	Unique mechanism of action that addresses tear evaporation		
Cost	\$771 per 3 ML bottle		

Veozah (fezolinetant)

Indication	Moderate-to-severe vasomotor symptoms (VMS), or hot flashes, caused by menopause		
Market Landscape	 64% of females 40 to 65 years of age in the United States were menopausal with VMS occurring in approximately 75% to 80% of menopausal women Menopausal hormone therapy (MHT) is the gold standard for VMS; paroxetine mesylate 7.5 mg is a nonhormonal option 		
Clinical Studies	 12-week SKYLIGHT 1 and 2 trials found a statistically significant reduction from baseline in frequency and severity of VMS at Weeks 4 and 12 Veozah demonstrated long-term endometrial health in a 52-week trial 		
How Supplied	45 mg oral tablet		
Dosing	45 mg tablet orally once daily		
Important Considerations	 First in class treatment Liver monitoring ICER recommended range of \$2,000 to \$2,500 per year for non-MHTs 		
Cost	WAC is \$6,692 per year		

8 Immunomodulators

Random State Food Fact 8:

Wisconsin is the only state that offers a Master Cheesemaker program, which takes three years to complete. Oh, and you need 10 years of cheese making experience before you can even apply.



Novel 2nd Half 2022 Immunomodulator Approvals

Drug Name	Approval Date	Indication	
Rystiggo (rozanolixizumab)	June 2023	Generalized myasthenia gravis	
Sotyktu (deucravacitinib) Sept 2022		Moderate-to-severe plaque psoriasis	
Spevigo (spesolimab)	Sept 2022	Generalized pustular psoriasis flares	

Rystiggo (rozanolixizumab)

Indication	Generalized myasthenia gravis (gMG) in adults who are positive for anti-acetylcholine receptor (AChR) or anti-muscle-specific tyrosine kinase (MuSK) antibodies		
Market Landscape	 Prevalence of gMG is 100–350 patients per 1 million individuals. AChR-positive ~85% of patients with MG & MuSK-positive ~ approximately 6% Current treatments include Vyvgart Hytrulo (efgartigimod alfa/hyaluronidase), Soliris (eculizumab), & Ultomiris (ravulizumab) 		
Clinical Studies	Rystiggo change of -3.4 points in the primary endpoint (Myasthenia Gravis Activities of Daily Living [MG-ADL] total score) versus -0.78 points in the placebo group over 6-week study		
How Supplied	280 mg/2 mL (140 mg/mL) in a single-dose vial		
Dosing	Subcutaneous infusion once weekly for 6 weeks		
Important Considerations	 Only approved treatment for both of the two most common subtypes of gMG Must be administered by an infusion pump at a rate of 20 mL/hr 		
Cost	WAC is \$290,400 per year		

9 Biosimilars

Random State Food Fact 9:

South Carolina is actually the birthplace of BBQ.

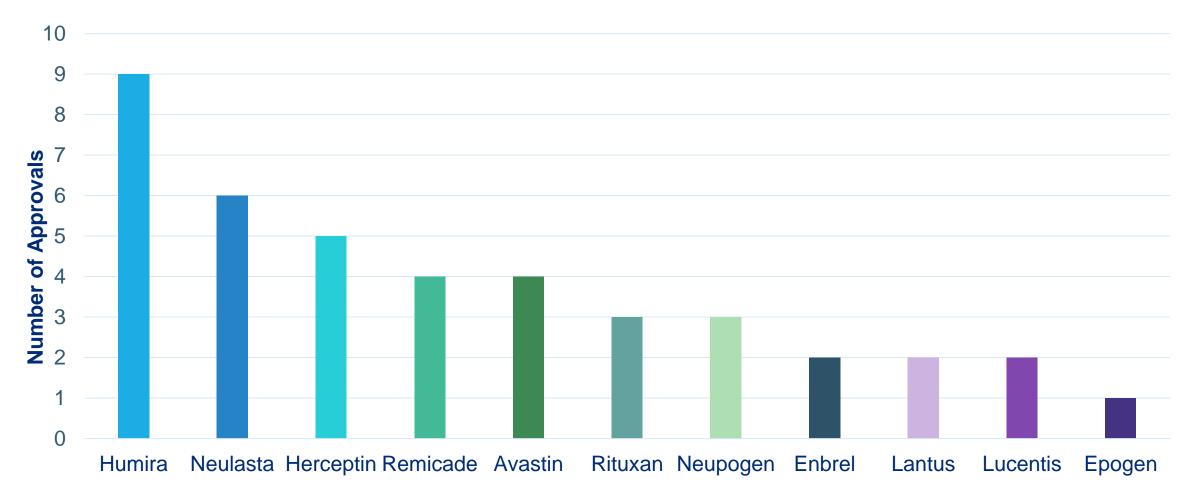


Biosimilar Approvals in 2nd Half 2022-2023

Drug Name	Approval Date	Reference Product
Yuflyma (adalimumab-aaty)	May 2023	Humira
Idacio (adalimumab-aacf)	Dec 2022	Humira
Releuko (filgrastim-ayow)	Feb 2022	Neupogen
Fylnetra (pegfilgrastim-pbbk)	May 2022	Neulasta
Stimufend (pegfilgrastim-fpgk)	Sept 2022	Neulasta
Vegzelma (bevacizumab-adcd)	Sept 2022	Avastin
Alymsys (bevacizumab-maly)	April 2022	Avastin
Cimerli (ranibizumab-eqrn)	Aug 2022	Lucentis

Biosimilar Approvals

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FDA. New Drug Therapy. https://www.fda.gov/drugs/development-approval-process-drugs/new-drugs-fda-cders-new-molecular-entities-and-new-therapeutic-biological-products. Approvals. Accessed 07/11/2023.

FDA. FDA-Approved Biosimilar Products. https://www.fda.gov/drugs/biosimilars/biosimilar-product-information. Accessed 07/11/2023.

Conclusions

26

Novel FDA drug approvals in 2023 thus far

5

Gene and cell therapy approvals in 2023 thus far

Oncology

rapid pace with the most novel approvals in 2023 thus far

Cell and Gene therapy

approvals are accelerating

Specialty therapy

approvals continue to increase, including those for neurology and rare diseases

Learning Assessment Questions

True or False?

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Which of the following are important considerations for Leqembi (lecanemab) regarding patient selection?

- 1. Severity of dementia
- 2. Presence of amyloid beta
- 3. Qualified prescriber participating in a registry
- 4. All of the above

True or False?

Jesduvroq (daprodustat) has a Boxed Warning for thrombotic vascular events, including major adverse cardiovascular events (MACE).

Questions



Bethany Holderread, Pharm.D.

Acknowledgements:Payal Kotadiya, April Lindquist



Abbreviations

AChR Anti-acetylcholine receptor **FDA** United States Food and Drug Administration **AD FMT** Alzheimer's disease Fecal microbiota transplantation **ALS** Amyotrophic lateral sclerosis gMG Generalized myasthenia gravis **ARIA** HIF-PH Hypoxia-inducible factor prolyl hydroxylase Amyloid-related imaging abnormalities **ICER BTKi** Bruton's tyrosine kinase inhibitor Institute for Clinical and Economic Review IV CAR-T Chimeric antigen receptor T-cell Intravenous CDI Clostridioides difficile infection M Meter **CKD** Chronic kidney disease MACE Major adverse cardiovascular events **CMS** Centers for Medicare & Medicaid Services MCL Mantle cell lymphoma COVD-19 Coronavirus disease **MG-ADL** Myasthenia gravis activities of daily living CRL Complete response letter MHT Menopausal hormone therapy DD Dialysis-dependent Min Minute Dry eye disease DED mL Milliliter **DMD** Duchenne muscular dystrophy MuSK Muscle-specific tyrosine kinase **DLBCL** Diffuse large B-cell lymphoma NCD National coverage decision **eGFR** Estimated glomerular filtration rate **NDD** Non-dialysis dependent **ERT** Enzyme replacement therapy NHL non-Hodgkin lymphoma **ESA** Erythropoiesis-stimulating agents **TDAPA** Transitional Drug Add-on Payment Adjustment **VMS** FA Friedrich's ataxia Vasomotor symptoms WAC Wholesale acquisition cost FD Fabry disease

