

# Pipeline Report



JANUARY 2024

## HIGHLIGHTS

- Recent FDA approvals including CASGEVY™ and LYFGENIA™ for sickle cell disease and FILSUVEZ® for dystrophic and junctional epidermolysis bullosa
- Upcoming approvals including Pz-cel for recessive dystrophic epidermolysis bullosa
- Developments for gene therapies including OTL-200 for the treatment of metachromatic leukodystrophy and KRESLADI™ for the treatment of leukocyte adhesion deficiency type 1



This quarterly publication is developed by our Clinical Pharmacy Drug Information team to provide additional drug pipeline information and insights to help health care leaders prepare for shifts in prescription drug management.

**AcariaHealth™**  
Specialty Pharmacy

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Two breakthrough therapies for sickle cell disease were FDA-approved during the past quarter. The two agents – **CASGEVY™** (*exagamglogene autotemcel*) and **LYFGENIA™** (*lovotibeglogene autotemcel*) are the first gene therapies to be approved for sickle cell disease, with CASGEVY™ additionally being the first gene therapy using CRISPR/Cas9 gene editing technology to ever be approved for any indication. Both agents are similarly promising for their potential to dramatically change the current treatment paradigm for sickle cell disease. Both are multi-million-dollar therapies, albeit with a significant cost difference between them. Commercial launch success will depend on multiple factors, not the least of which include patient acceptance, treatment tolerability, and provider preference.



Activity has been increasing in the rare disease epidermolysis bullosa space with the recent FDA approval of **FILSUVEZ®** (*birch triterpenes*) for dystrophic and junctional epidermolysis bullosa, and the impending FDA approval of **Pz-cel** (*prademagene zamikeracel*) gene-corrected epidermal sheets for recessive dystrophic epidermolysis bullosa. Both agents add to the existing treatment armamentarium, and to market competition for previously FDA-approved, high-cost gene therapy VYJUVEK® (*beremagene geperpavec-svdt*) for the dystrophic form of the disease.

Other notable pipeline developments include the upcoming potential FDA approvals of yet another two gene therapies, both for rare or ultra-rare genetic conditions that manifest primarily in the pediatric population. **OTL-200** (*atidarsagene autotemcel*) is under FDA review for the treatment of metachromatic leukodystrophy, and **KRESLADI™** (*marnetegragegene autotemcel*) is being reviewed for the treatment of leukocyte adhesion deficiency type 1. In both instances, the gene therapies would be the first FDA-approved agents to treat the conditions. The FDA is expected to make its decision on both agents before the end of the quarter.



**Alan R. Smith, MD**

Vice President, Medical Director

Drug Name	Manufacturer(s)	Indication(s)	FDA Approval Date	Comments	Cost (WAC)
<b>DERMATOLOGY</b>					
<b>FILSUEVZ®</b> <i>birch triterpenes</i> topical gel <sup>1</sup>	Chiesi Global Rare Diseases	Epidermolysis bullosa (EB)	12/18/2023	<ul style="list-style-type: none"> <li>Approved for the treatment of wounds associated with dystrophic and junctional epidermolysis bullosa (DEB and JEB) in adult and pediatric patients ≥ 6 months of age</li> <li>Will compete with VYJUVEK® for DEB; is the first FDA-approved agent for the treatment of JEB</li> <li>The prevalence of DEB is ~3.3 per one million, and for JEB is ~3 per one million</li> <li>Projected impact: for DEB, cost replacement of existing therapy; for JEB, new cost for a small population</li> </ul>	Pending launch
<b>ENDOCRINOLOGY</b>					
<b>ADZYNA™</b> <i>ADAMTS13, recombinant-krhn</i> intravenous (IV) infusion <sup>2</sup>	Takeda Pharmaceuticals	Congenital thrombotic thrombocytopenic purpura (cTTP)	11/9/2023	<ul style="list-style-type: none"> <li>Approved for prophylactic or on demand enzyme replacement therapy (ERT) in adult and pediatric patients with cTTP</li> <li>cTTP is an ultra-rare, chronic subtype of TTP that has an estimated prevalence of fewer than one case/million</li> <li>The current standard of care for cTTP is plasma therapy</li> <li>Projected impact: new cost for a very small population</li> </ul>	~\$255,000 - \$510,000/year depending on dosing regimen
<b>HEMATOLOGY</b>					
<b>RYZNEUTA®</b> <i>efbmalenograstim alfa-vuxw</i> subcutaneous (SC) injection <sup>1</sup>	Evive Biotechnology	Febrile neutropenia	11/16/2023	<ul style="list-style-type: none"> <li>Approved to decrease the incidence of infection, as manifested by febrile neutropenia, in adult patients with non-myeloid malignancies receiving myelosuppressive anti-cancer drugs associated with clinically significant incidence of febrile neutropenia</li> <li>Will compete with NEUPOGEN®, NEULASTA®, and biosimilars of both agents</li> <li>Projected impact: cost replacement of existing therapy</li> </ul>	Pending launch

Dispensing Specialty Pharmacy:  <sup>1</sup>Pending launch, <sup>2</sup>Orsini

Drug Name	Manufacturer(s)	Indication(s)	FDA Approval Date	Comments	Cost (WAC)
<b>FABHALTA</b> <sup>3 4</sup> <i>iptacopan</i> oral capsule	Novartis	Paroxysmal nocturnal hemoglobinuria (PNH)	12/5/2023	<ul style="list-style-type: none"> <li>Is the first oral complement inhibitor to be FDA-approved for the treatment of PNH in adults</li> <li>Will compete with other complement inhibitors that are IV- or SC-administered, including SOLIRIS®, ULTOMIRIS®, and EMPAVELI®</li> <li>Projected impact: cost replacement of existing therapy</li> </ul>	\$550,000/year
<b>CASGEVY</b> <sup>5</sup> <i>exagamglogene autotemcel</i> IV infusion	CRISPR Therapeutics and Vertex	Sickle cell disease (SCD) and transfusion-dependent $\beta$ -thalassemia (TDT)	12/8/2023 and 1/16/2024	<ul style="list-style-type: none"> <li>12/8/2023: Approved for the treatment of SCD in patients <math>\geq</math> 12 years of age with recurrent vaso-occlusive crises (VOCs) <ul style="list-style-type: none"> <li>SCD affects approximately 100,000 Americans</li> </ul> </li> <li>1/16/2024: Approved for the treatment of TDT in patients <math>\geq</math> 12 years of age</li> <li>Is the first FDA-approved gene therapy that utilizes CRISPR/Cas9 gene editing technology</li> <li>This gene therapy administration requires a myeloablative pre-conditioning regimen plus an extended post-treatment inpatient hospitalization</li> <li>Will compete with LYFGENIA™ gene therapy for the SCD indication and with ZYNTEGLO™ gene therapy for the TDT indication</li> <li>Projected impact: incremental cost increase</li> </ul>	\$2.2 million/one-time treatment
<b>LYFGENIA</b> <sup>5</sup> <i>lovotibeglogene autotemcel</i> IV infusion	bluebird bio	SCD	12/8/2023	<ul style="list-style-type: none"> <li>Approved for the treatment of patients <math>\geq</math> 12 years of age with SCD and a history of vaso-occlusive events (VOEs)</li> <li>SCD affects approximately 100,000 Americans</li> <li>The LYFGENIA™ Prescribing Information includes a Boxed Warning regarding an increased risk of hematologic malignancies</li> <li>This gene therapy administration requires a myeloablative pre-conditioning regimen plus an extended post-treatment inpatient hospitalization</li> <li>Will compete with CASGEVY™ gene therapy for the SCD indication</li> <li>Projected impact: incremental cost increase</li> </ul>	\$3.1 million/one-time treatment

Dispensing Specialty Pharmacy: <sup>3</sup>Biologics, <sup>4</sup>Onco 360, <sup>5</sup>Hospital Administration

Drug Name	Manufacturer(s)	Indication(s)	FDA Approval Date	Comments	Cost (WAC)
<b>NEUROLOGY</b>					
<b>WAINUA™</b> <i>eplontersen</i> SC injection	AstraZeneca and Ionis	Polyneuropathy	12/21/2023	<ul style="list-style-type: none"> <li>• Approved for the treatment of the polyneuropathy of hereditary transthyretin-mediated amyloidosis in adults</li> <li>• Self-injected subcutaneously once every four weeks</li> <li>• Will compete with ONPATTRO®, TEGSEDI®, and AMVUTTRA®, which are all FDA-approved for the same indication</li> <li>• Projected impact: cost replacement of existing therapies</li> </ul>	\$499,000/year

Dispensing Specialty Pharmacy:  Orsini


Drug Name	Manufacturer(s)	Indication(s)	FDA Approval Date	Comments	Cost (WAC)
<b>ONCOLOGY</b>					
<b>KEYTRUDA®</b> pembrolizumab IV infusion	Merck & Co	Gastric or gastroesophageal junction (GEJ) adenocarcinoma	11/7/2023, 11/16/2023, 12/15/2023, 1/12/2024	<ul style="list-style-type: none"> <li>• New indications for an existing agent</li> <li>• 11/7/2023: Approved for use in combination with HERCEPTIN® (trastuzumab), fluoropyrimidine- and platinum-containing chemotherapy, for the first-line treatment of patients with locally advanced unresectable or metastatic HER2-positive gastric or GEJ adenocarcinoma whose tumors express PD-L1 (CPS ≥ 1) as determined by an FDA-approved test                             <ul style="list-style-type: none"> <li>• Restricts the use of KEYTRUDA® for this indication to patients whose tumors express PD-L1</li> </ul> </li> <li>• 11/16/2023: Approved for use in combination with fluoropyrimidine- and platinum-containing chemotherapy, for the first-line treatment of adults with locally advanced unresectable or metastatic HER2-negative gastric or GEJ adenocarcinoma                             <ul style="list-style-type: none"> <li>• Represents an FDA label expansion to include patients with HER2-negative disease</li> <li>• OPDIVO® is FDA-approved for the same indication</li> </ul> </li> <li>• 12/15/2023: Approved for use in combination with PADCEV® (enfortumab vedotin), for the treatment of adult patients with locally advanced or metastatic urothelial cancer                             <ul style="list-style-type: none"> <li>• Converts the accelerated approval of the combination to regular approval for all first-line locally advanced or metastatic urothelial cancer patients, expanding the indication to cisplatin-eligible patients</li> </ul> </li> <li>• 1/12/2024: Approved for use in combination with chemoradiotherapy for the treatment of patients with FIGO 2014 Stage III-IVA cervical cancer                             <ul style="list-style-type: none"> <li>• Allows for use in earlier lines of cervical cancer therapy</li> </ul> </li> <li>• Projected impact: cost replacement of existing therapies</li> </ul>	\$200,071/year

Dispensing Specialty Pharmacy: # <sup>6</sup>Hospital, doctor's office, or infusion center administration

Drug Name	Manufacturer(s)	Indication(s)	FDA Approval Date	Comments	Cost (WAC)
<b>FRUZAQLA™</b> <i>fruquintinib</i> oral capsule <span style="float: right;">2 4</span>	Takeda Pharmaceuticals	Colorectal cancer	11/8/2023	<ul style="list-style-type: none"> <li>Approved for the treatment of patients with metastatic colorectal cancer who have been previously treated with fluoropyrimidine-, oxaliplatin-, and irinotecan-based chemotherapy, an anti-vascular endothelial growth factor (VEGF) biological therapy, and, if RAS wild-type, an anti-epidermal growth factor receptor (EGFR) therapy</li> <li>Will compete with STIVARGA®, LONSURF® ± AVASTIN®</li> <li>Projected impact: cost replacement of existing therapies</li> </ul>	\$302,400/year
<b>AUGTYRO™</b> <i>repotrectinib</i> oral capsule <span style="float: right;">A 7</span>	Bristol Myers Squibb	Non-small cell lung cancer (NSCLC)	11/15/2023	<ul style="list-style-type: none"> <li>Approved for the treatment of adult patients with ROS1-positive locally advanced or metastatic NSCLC</li> <li>Will compete with ROZLYTREK® and XALKORI®</li> <li>Projected impact: cost replacement of existing therapies</li> </ul>	\$352,800/year
<b>TRUQAP™</b> <i>capivasertib</i> oral tablet <span style="float: right;">2 4</span>	AstraZeneca	Breast cancer	11/16/2023	<ul style="list-style-type: none"> <li>Approved for use in combination with FASLODEX® (<i>fulvestrant</i>) for the treatment of adult patients with HR-positive, HER2-negative, locally advanced or metastatic breast cancer with one or more PIK3CA/AKT1/PTEN-alterations as detected by FDA-approved test following progression on at least one endocrine-based regimen in the metastatic setting or recurrence on or within 12 months of completing adjuvant therapy</li> <li>PIQRAY® is also FDA-approved for PIK3CA-mutated advanced or metastatic breast cancer</li> <li>Projected impact: for PIK3CA-mutated breast cancer, cost replacement of existing therapy; for other mutations, new cost for small populations</li> </ul>	\$298,000/year
<b>OGSIVEO™</b> <i>nirogacestat</i> oral tablet <span style="float: right;">2 4</span>	Springworks Therapeutics	Desmoid tumors	11/27/2023	<ul style="list-style-type: none"> <li>Approved for the treatment of adult patients with progressing desmoid tumors who require systemic treatment</li> <li>Current therapies include chemotherapy, hormone therapy, anti-inflammatory agents, tyrosine kinase inhibitors, and surgery</li> <li>Projected impact: cost replacement of existing therapies</li> </ul>	\$353,000/year

Dispensing Specialty Pharmacy: A AcariaHealth # <sup>2</sup>Biologics, <sup>4</sup>Onco360, <sup>7</sup>CVS Caremark

Drug Name	Manufacturer(s)	Indication(s)	FDA Approval Date	Comments	Cost (WAC)
<b>IWILFIN™</b> eflornithine oral tablet	US WorldMeds	Neuroblastoma	12/13/2023	<ul style="list-style-type: none"> <li>• Approved to reduce the risk of relapse in adult and pediatric patients with high-risk neuroblastoma who have demonstrated at least a partial response to prior multiagent, multimodality therapy including anti-GD2 immunotherapy</li> <li>• IWILFIN™ is taken until disease progression, unacceptable toxicity, or for a maximum of two years</li> <li>• Projected impact: cost replacement of existing therapies</li> </ul>	\$65,700 to \$262,800/year, depending on body surface area (BSA)

Dispensing Specialty Pharmacy:  Pending launch



Drug Name	Manufacturer(s)	Indication(s)	Mechanism(s) of Action	Comments	Anticipated Cost	Anticipated Approval Date
<b>COAGULATION DISORDERS</b>						
<b>PF-06838435/SPK-9001*</b> <i>fidanacogene elaparvec</i> intravenous (IV) infusion	Pfizer and Spark Therapeutics	Hemophilia B	Gene therapy	<ul style="list-style-type: none"> <li>Current standard of care is factor IX (FIX) replacement therapy</li> <li>The Phase III BENEGENE-2 study in adult males with moderately severe to severe hemophilia B met its primary endpoint of reduction in annualized bleeding rate (ABR) of total bleeds, with a mean ABR reduction of 71% (p&lt;0.0001)                             <ul style="list-style-type: none"> <li>Also reported was a 92% reduction in annualized FIX infusion rate (p&lt;0.0001)</li> </ul> </li> <li>Mean FIX activity was 27% at 15 months and 25% at 24 months</li> <li><i>Fidanacogene elaparvec</i> was generally well-tolerated; no deaths, serious adverse events associated with infusion reactions, thrombotic events, or FIX inhibitors were reported</li> <li>Would compete with HEMGENIX® (<i>etranacogene dezaparvec-drlb</i>) gene therapy for the same indication</li> <li>The FDA accepted the BLA for review</li> </ul>	\$3-3.5 million/ one-time treatment	4/27/2024

\* Expected to cost ≥ \$500,000 per member.

Drug Name	Manufacturer(s)	Indication(s)	Mechanism(s) of Action	Comments	Anticipated Cost	Anticipated Approval Date
<b>PF-06741086</b> <i>marstacimab</i> subcutaneous (SC) injection	Pfizer	Hemophilia A or B	Tissue factor pathway inhibitor (TFPI)-neutralizing antibody	<ul style="list-style-type: none"> <li>Proposed for the prevention of bleeding episodes in patients &gt; 12 years of age with hemophilia A or B with or without inhibitors</li> <li>Once weekly subcutaneous injection</li> <li>For hemophilia A, would compete directly with HEMLIBRA® and factor VIII (FVIII) replacement therapy, while providing a chronic therapy alternative to ROCTAVIAN™ gene therapy</li> <li>For hemophilia B, would compete directly with FIX replacement therapy while providing a chronic therapy alternative to HEMGENIX® gene therapy</li> </ul>	\$450,000/year	4Q 2024
<b>SPK-8011*</b> <i>dirloctogene samoparvovec</i> IV infusion	Spark Therapeutics and Roche	Hemophilia A	Gene therapy	<ul style="list-style-type: none"> <li>Proposed for the treatment of adults with severe disease (~60% of the total hemophilia A population)</li> <li>Current standard of care is FVIII replacement therapy or Hemlibra</li> <li>In the ongoing Phase I/II trial, FVIII expression was sustained in 21 of 23 (91%) participants with up to five years of follow-up                             <ul style="list-style-type: none"> <li>Of these 21 participants, there was a 92% reduction in ABR</li> <li>There were no deaths, no thrombotic events, and no FVIII inhibitor development reported in the five years</li> </ul> </li> <li>The Phase III Keystone-1 trial has launched</li> <li>Would compete with ROCTAVIAN™ (<i>valoctocogene roxaparvovec-rvox</i>) gene therapy for the same indication</li> </ul>	\$2-3 million/one-time treatment	2025

\* Expected to cost ≥ \$500,000 per member.

Drug Name	Manufacturer(s)	Indication(s)	Mechanism(s) of Action	Comments	Anticipated Cost	Anticipated Approval Date
<b>SB-525*</b> <i>griectocogene fitelparvovec</i> IV infusion	Pfizer and Sangamo Therapeutics	Hemophilia A	Gene therapy	<ul style="list-style-type: none"> <li>For the treatment of adults with severe disease (~60% of the total hemophilia A population)</li> <li>Current standard of care is FVIII replacement therapy or HEMLIBRA®</li> <li>SB-525 was being studied in the Phase III AFFINE trial, which had been voluntarily paused by the manufacturers to address the observation that some patients had FVIII activity of 150% or more, potentially raising their risk of blood clots</li> <li>After a study protocol amendment, the AFFINE trial was re-started and a pivotal readout is expected in the first half of 2024</li> <li>Meanwhile, updated results from the Phase I/II Alta trial showed that, among five patients receiving the highest dose of SB-525, mean FVIII levels were 25.4% at two years; during Year 2, one patient had eight bleeds, while another had one</li> <li>Would compete with ROCTAVIAN™ (<i>valoctocogene roxaparvovec-rvox</i>) gene therapy for the same indication</li> </ul>	\$2-3 million/ one-time treatment	2025
<b>DERMATOLOGY</b>						
<b>Pz-cel*</b> <i>prademagene zamikeracel</i> epidermal sheet	Abeona Therapeutics	Recessive dystrophic epidermolysis bullosa (RDEB)	Gene therapy	<ul style="list-style-type: none"> <li>Proposed for the treatment of RDEB in patients ≥ 6 years of age</li> <li>Pz-cel is produced as autologous, COL7A1 gene-corrected epidermal sheets which are laid over RDEB wounds to promote wound healing and pain reduction</li> <li>VYJUVEK® is another gene therapy that is also FDA-approved for RDEB, but which is applied topically weekly until wound closure</li> </ul>	\$1-2 million/ one-time treatment	5/25/2024

\* Expected to cost ≥ \$500,000 per member.

Drug Name	Manufacturer(s)	Indication(s)	Mechanism(s) of Action	Comments	Anticipated Cost	Anticipated Approval Date
<b>ENDOCRINOLOGY</b>						
<b>OTL-200*</b> <i>atidarsagene autotemcel</i> IV infusion	Orchard Therapeutics	Metachromatic leukodystrophy (MLD)	Gene therapy	<ul style="list-style-type: none"> <li>MLD is a rare and life-threatening inherited disease occurring in approximately one in every 100,000 live births, caused by a mutation in the ARSA gene</li> <li>In its late infantile form, mortality at 5 years from onset is estimated at 50% and 44% at 10 years for juvenile patients</li> <li>Currently, there are no effective treatments for MLD</li> <li>The Institute for Clinical and Economic Review (ICER) published a Final Evidence Report assessing the comparative clinical effectiveness and value of OTL-200 for MLD</li> <li>In the Final report, ICER assigned an Evidence Rating of high certainty of A (substantial net health benefit) vs. usual standard of care for OTL-200 treatment in children with presymptomatic late-infantile and early juvenile forms of MLD</li> <li>An Evidence Rating of moderate certainty of a B+ (moderate certainty of a small or substantial net health benefit with high certainty of at least a small net health benefit) vs. usual standard of care was assigned for early symptomatic early juvenile MLD</li> </ul>	\$3-4 million/ one-time treatment	3/18/2024
<b>TransCon PTH</b> <i>palopegteriparatide</i> SC injection	Ascendis Pharmaceuticals	Hypoparathyroidism	Prodrug of parathyroid hormone	<ul style="list-style-type: none"> <li>Proposed for the treatment of adult patients with hypoparathyroidism</li> <li>Would compete with NATPARA® until NATPARA® manufacturing ceases at the end of 2024</li> </ul>	\$130,000/ year	5/14/2024

\* Expected to cost ≥ \$500,000 per member.

Drug Name	Manufacturer(s)	Indication(s)	Mechanism(s) of Action	Comments	Anticipated Cost	Anticipated Approval Date
<b>Miplyffa</b> <i>arimoclolol</i> oral therapy	Zevra Therapeutics	Niemann-Pick type C (NPC) disease	Heat-shock protein modulator	<ul style="list-style-type: none"> <li>NPC is an ultra-rare, progressive, neurodegenerative genetic disorder with a prevalence of approximately one person per million in the U.S.</li> </ul>	\$400,000/year	6/21/2024
<b>GASTROENTEROLOGY</b>						
<b>MGL-3196</b> <i>resmetirom</i> oral therapy	Madrigal Pharmaceuticals	Metabolic dysfunction-associated steatohepatitis (MASH)	$\beta$ -selective thyroid hormone receptor agonist	<ul style="list-style-type: none"> <li>Proposed for the treatment of MASH with liver fibrosis</li> <li>Would be the first FDA-approved agent for MASH</li> <li>MASH affects an estimated 6% of the U.S. population</li> </ul>	\$50,000/year	3/14/2024
<b>GFT505</b> <i>elafibranor</i> oral tablet	Genfit	Primary biliary cholangitis (PBC)	Peroxisome proliferator-activator receptor agonist	<ul style="list-style-type: none"> <li>Proposed for the treatment of PBC in adults with inadequate response to ursodeoxycholic acid</li> <li>Would compete with OCALIVA<sup>®</sup>, potentially with a lower rate of pruritus</li> </ul>	\$110,000/year	6/10/2024
<b>HEMATOLOGY</b>						
<b>ACH-4471</b> <i>danicopan</i> oral tablet	AstraZeneca	Paroxysmal nocturnal hemoglobinuria (PNH)	Complement pathway factor D inhibitor	<ul style="list-style-type: none"> <li>Proposed for the treatment of PNH in combination with SOLIRIS<sup>®</sup> (<i>eculizumab</i>) or ULTOMIRIS<sup>®</sup> (<i>ravulizumab</i>) for patients with clinically significant extravascular hemolysis (EVH)</li> </ul>	\$150,000/year	2/15/2024
<b>KRESLADI<sup>™</sup></b> <i>marnetegrage autotemcel</i> IV infusion	Rocket Pharmaceuticals	Leukocyte adhesion deficiency-I (LAD-I)	Lentiviral vector-based gene therapy	<ul style="list-style-type: none"> <li>LAD-I is a rare genetic condition that results in recurrent life-threatening bacterial and fungal infections that respond poorly to antibiotics and require frequent hospitalizations</li> <li>LAD-I is estimated to occur in one in every one million people worldwide</li> <li>Bone marrow transplant is the only available curative therapy, but mortality in patients with severe LAD-I remains at 60-75% prior to 2 years of age and survival beyond 5 years of age is uncommon</li> </ul>	\$3-4 million/one-time treatment	3/31/2024

\* Expected to cost  $\geq$  \$500,000 per member.

Drug Name	Manufacturer(s)	Indication(s)	Mechanism(s) of Action	Comments	Anticipated Cost	Anticipated Approval Date
<b>RG6107</b> <i>crovalimab</i> SC injection	Genentech	PNH	C5 complement inhibitor	<ul style="list-style-type: none"> <li>Proposed for the treatment of PNH in patients ≥ 12 years of age</li> <li>Self-administered subcutaneous injection once monthly</li> <li>Would compete with EMPAVELI® (<i>SC injection</i>), SOLIRIS®, and ULTOMIRIS® as other injectable complement-mediated therapies</li> </ul>	\$450,000/year	6/15/2024
<b>IMMUNOLOGY</b>						
<b>CTP-543</b> <i>deuruxolitinib</i> oral therapy	Sun Pharmaceuticals	Alopecia areata (AA)	JAK1 and JAK2 inhibitor	<ul style="list-style-type: none"> <li>Proposed for the treatment of moderate-to-severe AA</li> <li>Would compete with OLUMIANT® and LITFULO™, two other JAK inhibitors that are FDA-approved for AA</li> </ul>	\$45,000/year	4/6/2024
<b>X4P-001-RD</b> <i>mavorixafor</i> oral capsule	X4 Pharmaceuticals	Warts, hypogammaglobulinemia, infections, and myelokathexis (WHIM) syndrome	CXCR antagonist	<ul style="list-style-type: none"> <li>Proposed for the treatment of patients ≥ 12 years of age with WHIM syndrome</li> <li>The prevalence of WHIM syndrome in the general population has been estimated at 0.2 per million live births</li> </ul>	\$200,000/year	4/30/2024
<b>CSL312*</b> <i>garadacimab</i> SC injection	CSL Behring	Hereditary angioedema (HAE)	Factor XIIIa-inhibitory monoclonal antibody	<ul style="list-style-type: none"> <li>Proposed for the prevention of hereditary angioedema attacks in patients ≥ 12 years of age</li> <li>Once monthly subcutaneous injection</li> <li>Would compete with other HAE prophylactic therapies including CINRYZE®, HAEGARDA®, ORLADEYO®, and TAKHZYRO®</li> </ul>	\$500,000/year	10/14/2024
<b>MUSCULOSKELETAL CONDITIONS</b>						
<b>ITF2357</b> <i>givinostat</i> oral suspension	Italfarmaco	Duhenne muscular dystrophy (DMD)	Histone deacetylase (HDAC) inhibitor	<ul style="list-style-type: none"> <li>Twice daily oral dosing, for use as an adjunct to existing corticosteroid therapy</li> <li>Acts on the pathogenetic events downstream of DMD-related genetic defects, thus is potentially a treatment for the whole DMD population</li> </ul>	\$350,000/year	3/21/2024

\* Expected to cost ≥ \$500,000 per member.

Drug Name	Manufacturer(s)	Indication(s)	Mechanism(s) of Action	Comments	Anticipated Cost	Anticipated Approval Date
<b>PF-06939926*</b> <i>fordadistrogene movaparvovec</i> IV infusion	Pfizer	DMD	Gene therapy	<ul style="list-style-type: none"> <li>One-time treatment</li> <li>Three serious adverse effects were identified in the Phase III ClFFREO trial, muscle weakness including two cases of myocarditis, attributed to the gene therapy</li> <li>The study protocol was amended to exclude patients with any mutation (exon deletion, exon duplication, insertion, or point mutation) affecting exons 9-13, inclusive, or a deletion that affects both exon 29 and exon 30; these mutations are estimated to represent ~15% of patients with DMD</li> <li>There are indications that the muscle-related adverse effects associated with specific exon gene mutations may be a class effect across DMD gene therapies</li> <li>Phase III data is anticipated during 1H 2024</li> <li>Would compete with FDA-approved ELEVIDYS™ (<i>delandistrogene moxeparvovec</i>) gene therapy</li> </ul>	\$2-3 million/ one-time treatment	2025
<b>GALGT2*</b> <i>AAVrh74.MHCK.GALGT2</i> intra-arterial injection	Sarepta Therapeutics	DMD	Gene therapy	<ul style="list-style-type: none"> <li>Would compete with FDA-approved ELEVIDYS™ (<i>delandistrogene moxeparvovec</i>) gene therapy</li> </ul>	\$2-3 million/ one-time treatment	2025

Expected to cost ≥ \$500,000 per member.

Drug Name	Manufacturer(s)	Indication(s)	Mechanism(s) of Action	Comments	Anticipated Cost	Anticipated Approval Date
<b>NEUROLOGY</b>						
<b>LY3002813</b> <i>donanemab</i> IV infusion	Eli Lilly & Co	Early Alzheimer's Disease (AD)	Anti-amyloid monoclonal antibody	<ul style="list-style-type: none"> <li>Proposed for the treatment of early symptomatic AD</li> <li>Final results of the Phase III TRAILBLAZER-2 trial for donanemab for early Alzheimer's disease demonstrated a slowing of clinical decline of 35% at 18 months in people who received donanemab compared to placebo                             <ul style="list-style-type: none"> <li>52% of participants with intermediate tau levels completed their course of treatment by one year and 72% completed by 18 months as a result of achieving plaque clearance</li> </ul> </li> <li>In this study, the incidence of serious ARIA was 1.6%, including two participants whose death was attributed to ARIA and a third participant who died after an incident of serious ARIA</li> <li>If approved, donanemab would compete with LEQEMBI®, and it would likely be subject to the same coverage restrictions imposed by the CMS NCD for this class of agents</li> </ul>	\$30,000/year	1Q 2024



Drug Name	Manufacturer(s)	Indication(s)	Mechanism(s) of Action	Comments	Anticipated Cost	Anticipated Approval Date
<p><b>PTC-AADC*</b> <i>eladocagene exuparvovec</i> intraputamenal injection</p>	PTC Therapeutics	Aromatic L-amino acid decarboxylase (AADC) deficiency	Gene therapy	<ul style="list-style-type: none"> <li>· There are no approved therapies for the treatment of AADC deficiency, which is an ultra-rare enzyme deficiency disorder</li> <li>· Estimated prevalence: ~5,000 patients worldwide, with a live-birth incidence of approximately one in 40,000 worldwide</li> <li>· Five-year follow-up results from a clinical trial show that motor function improvements after PTC-AADC therapy were sustained, demonstrating that the treatment effect is durable                             <ul style="list-style-type: none"> <li>· Across three clinical trials, improvements in motor development were recorded in all children from as early as three months</li> </ul> </li> <li>· Cognitive and language skills were also reported to improve significantly from baseline, as measured by Bayley-III scores, with children able to understand their caregivers and express themselves</li> <li>· The rate of respiratory infection declined from an average of 2.4 episodes/year at 12 months to 0.6 episodes/year at two years and 0.3 episodes/year at five years</li> <li>· Almost all treated children went from a baseline weight below the third percentile to making age-appropriate weight gains by 12 months following treatment</li> <li>· Planned BLA submission in 1Q 2024</li> </ul>	\$3-4 million/ one-time treatment	2024

\* Expected to cost ≥ \$500,000 per member.

Drug Name	Manufacturer(s)	Indication(s)	Mechanism(s) of Action	Comments	Anticipated Cost	Anticipated Approval Date
<b>ONCOLOGY</b>						
<b>BGB-A317</b> <i>tislelizumab</i> IV infusion	BeiGene and Novartis	Esophageal squamous cell carcinoma (ESCC)	Humanized IgG4 anti-PD-1 monoclonal antibody	<ul style="list-style-type: none"> <li>Proposed for the treatment of patients with unresectable recurrent locally advanced or metastatic ESCC after prior systemic therapy</li> <li>Also proposed for use as a first-line treatment for patients with unresectable, recurrent, locally advanced, or metastatic ESCC, with an FDA decision due in July 2024</li> <li>The FDA deferred its decision on the BLA for later-line use due to lack of inspections in a foreign manufacturing facility</li> </ul>	\$175,000/year	1Q 2024
<b>LN-144</b> <i>lifileucel</i> IV injection	Iovance Biotherapeutics	Melanoma	Autologous tumor infiltrating lymphocyte cell therapy	<ul style="list-style-type: none"> <li>Proposed for the treatment of advanced (unresectable or metastatic) melanoma that has progressed after anti-PD-1/L1 therapy, and if BRAF mutation positive, also prior BRAF or BRAF/MEK inhibitor therapy</li> <li>Administered as a one-time dose</li> <li>If approved, this would be the first cell therapy to target a solid tumor</li> </ul>	\$500,000/one-time treatment	2/24/2024
<b>BREYANZI®</b> <i>lisocabtagene maraleucel</i> IV infusion	Bristol Myers Squibb	Chronic lymphocytic leukemia (CLL), small lymphocytic lymphoma (SLL)	CAR T-cell therapy	<ul style="list-style-type: none"> <li><b>• New indication for an existing CAR T-cell therapy</b></li> <li>Proposed for the treatment of patients with relapsed and/or refractory CLL or SLL who received a prior Bruton tyrosine kinase inhibitor and B-cell lymphoma 2 inhibitor</li> <li>If approved, Breyanzi would be the first and only CAR-T cell therapy available for CLL or SLL</li> </ul>	\$447,227/one-time treatment	3/14/2024
<b>REGN1979</b> <i>odronextamab</i> IV infusion	Regeneron Pharmaceuticals	Follicular lymphoma (FL) or diffuse large B-cell lymphoma (DLBCL)	CD20xCD3 bispecific antibody	<ul style="list-style-type: none"> <li>Proposed for the treatment of adult patients with relapsed/refractory FL or relapsed/refractory DLBCL, who have progressed after at least two prior systemic therapies</li> </ul>	\$350,000/year	3/31/2024

Drug Name	Manufacturer(s)	Indication(s)	Mechanism(s) of Action	Comments	Anticipated Cost	Anticipated Approval Date
<b>ABECMA®</b> <i>idecabtagene vicleucel</i> IV infusion	Bristol Myers Squibb	Relapsed or refractory multiple myeloma (RRMM)	CAR T-cell therapy	<ul style="list-style-type: none"> <li>• <b>New indication for an existing CAR T-cell therapy</b></li> <li>• Proposed for the treatment of adult patients with RRMM who have received an immunomodulatory agent, a proteasome inhibitor, and an anti-CD38 monoclonal antibody</li> <li>• Proposes use as third line of therapy or later; ABECMA® is currently FDA-approved for use after four or more prior lines of therapy</li> </ul>	\$458,000/ one-time treatment	1Q 2024
<b>OPDIVO®</b> <i>nivolumab</i> IV infusion	Bristol Myers Squibb	Urothelial carcinoma	PD-1 inhibitor	<ul style="list-style-type: none"> <li>• <b>New indication for an existing agent</b></li> <li>• Proposed for the first-line treatment of adult patients with unresectable or metastatic urothelial carcinoma in combination with cisplatin-based chemotherapy</li> <li>• Is currently FDA-approved for use with disease progression on or after platinum-containing chemotherapy</li> </ul>	\$191,000/ year	4/5/2024
<b>ANKTIVA®</b> <i>nogapendekin alfa inbakicept</i> intravesical instillation	ImmunityBio	Non-muscle invasive bladder cancer (NMIBC)	Beta gamma T-cell receptor binder	<ul style="list-style-type: none"> <li>• Proposed for use in combination with bacillus Calmette-Guérin (BCG), for the treatment of BCG-unresponsive non-muscle-invasive bladder cancer (NMIBC) carcinoma in situ with or without Ta or T1 disease</li> </ul>	\$200,000/ year	4/23/2024
<b>DAY101</b> <i>tovorafenib</i> oral therapy	Day One Biopharmaceuticals	Pediatric low-grade glioma (pLGG)	Pan-RF kinase inhibitor	<ul style="list-style-type: none"> <li>• Proposed for the treatment of relapsed or progressive pLGG as a monotherapy</li> </ul>	\$250,000/ year	4/30/2024
<b>rivoceranib + camrelizumab</b> oral therapy + IV infusion	Elevar Therapeutics	Hepatocellular carcinoma	Tyrosine kinase inhibitor + PD-1 inhibitor	<ul style="list-style-type: none"> <li>• Proposed for combination use as a first-line treatment option for unresectable hepatocellular carcinoma</li> </ul>	\$400,000/ year	5/16/2024
<b>AMG 757</b> <i>tarlatamab</i> IV infusion	Amgen	Small-cell lung cancer (SCLC)	DLL3-targeting bispecific T-cell engager (BiTE) therapy	<ul style="list-style-type: none"> <li>• Proposed for the treatment of adults with advanced SCLC who have had disease progression on or after platinum-based chemotherapy</li> </ul>	\$450,000/ year	6/12/2024

Drug Name	Manufacturer(s)	Indication(s)	Mechanism(s) of Action	Comments	Anticipated Cost	Anticipated Approval Date
<b>GRN163L</b> <i>imetelstat</i> IV infusion	Geron Corporation	Myelodysplastic syndromes (MDS)	Telomerase inhibitor	<ul style="list-style-type: none"> <li>Proposed for the treatment of adult patients with transfusion-dependent anemia due to Low- or Intermediate-1 risk MDS who have failed to respond to, have lost response to, or are ineligible for, erythropoiesis-stimulating agents</li> </ul>	\$200,000/year	6/16/2024
<b>HER3-DXd</b> <i>patritumab deruxtecan</i> IV infusion	Daiichi Sankyo and Merck & Co.	Non-small cell lung cancer (NSCLC)	HER3-directed antibody drug conjugate	<ul style="list-style-type: none"> <li>Proposed for the treatment of patients with metastatic or locally advanced EGFR-mutated NSCLC with disease progression on or after treatment with two or more systemic therapies</li> </ul>	\$350,000/year	6/26/2024
<b>RESPIRATORY DISEASE</b>						
<b>MK-7962</b> <i>sotatercept</i> SC injection	Merck & Co.	Pulmonary arterial hypertension (PAH)	TGF-beta selective ligand trap	<ul style="list-style-type: none"> <li>Proposed for the treatment of adult patients with PAH</li> <li>Self-administered subcutaneous injection every 21 days</li> <li>First potentially disease-modifying therapy in the PAH space, intended to be added on to stable background therapy</li> </ul>	\$400,000/year	3/26/2024

Drug Name	Manufacturer(s)	Biosimilar Reference Drug	Indication(s)	Status/Estimated Approval	Biosimilar Currently Launched?	Comments
<b>DERMATOLOGY</b>						
<b>FYB202</b> <i>ustekinumab</i> subcutaneous (SC) injection	Formycon and Fresenius Kabi	STELARA®	Plaque psoriasis	BLA is under FDA review (BsUFA date: 9/30/2024)	No	· Would be the second STELARA® biosimilar, after WEZLANA™
<b>SB17</b> <i>ustekinumab</i> SC injection	Samsung Bioepis	STELARA®	Plaque psoriasis	BLA is under FDA review (BsUFA date: 11/1/2024)	No	· Would be a subsequent STELARA® biosimilar, after WEZLANA™
<b>DMB-3115</b> <i>ustekinumab</i> SC injection	Accord BioPharma	STELARA®	Plaque psoriasis	BLA is under FDA review (BsUFA date: 4Q 2024)	No	· Would be a subsequent STELARA® biosimilar, after WEZLANA™
<b>ENDOCRINOLOGY</b>						
<b>denosumab</b> SC injection	Sandoz	PROLIA® and XGEVA®	Osteoporosis, skeletal-related complications of bone metastases, giant cell tumor of the bone, hypercalcemia of malignancy	BLA is under FDA review (BsUFA date: 1/5/2024)	No	· Would be the first approved PROLIA® and XGEVA® biosimilar product
<b>HEMATOLOGY</b>						
<b>ABP-959</b> <i>eculizumab</i> intravenous (IV) infusion	Amgen	SOLIRIS®	Paroxysmal nocturnal hemoglobinuria	BLA is under FDA review (BsUFA date: 2/15/2024)	No	· Would be the first approved SOLIRIS® biosimilar product  Anticipated launch: March 2025 due to a SOLIRIS® patent litigation agreement

Drug Name	Manufacturer(s)	Biosimilar Reference Drug	Indication(s)	Status/Estimated Approval	Biosimilar Currently Launched?	Comments
<b>IMMUNOLOGY</b>						
<b>AVT02</b> <i>adalimumab</i> SC injection	Alvotect and Teva Pharmaceuticals	HUMIRA®	Rheumatoid arthritis (RA)	BLA is under FDA review (BsUFA date: 2/24/2024)	Yes	· Interchangeable designation has been requested as part of the BLA for this high-concentration formulation
<b>HADLIMA™</b> <b>interchangeability status</b> <i>adalimumab-bwwd</i> SC injection	Samsung Bioepsis	HUMIRA®	RA, JIA, psoriatic arthritis, ankylosing spondylitis, Crohn's disease, ulcerative colitis, plaque psoriasis, hidradenitis suppurativa (HS), uveitis	BLA is under FDA review (BsUFA date: 6/15/2024)	Yes	· Could be subsequent HUMIRA® interchangeable biosimilar product (CYLTEZO® and ABRILADA™ have interchangeable status)
<b>ONCOLOGY</b>						
<b>AVZIVI®</b> <i>bevacizumab-trjnj</i> IV infusion	Bio-Thera Solutions	AVASTIN®	Colorectal cancer, non-small cell lung cancer, glioblastoma, renal cell carcinoma, cervical cancer, epithelial ovarian, fallopian tube, or primary peritoneal cancer	FDA approval: 12/6/2023	Yes	· Is the fifth biosimilar to AVASTIN® after ALYMSIS®, MVASI®, VEGZELMA®, and ZIRABEV®
<b>HLX02</b> <i>trastuzumab</i> IV infusion	Henlius Biotech	HERCEPTIN®	Breast cancer, gastric or gastroesophageal junction (GEJ) cancer	BLA is under FDA review (BsUFA date: 1/15/2024)	Yes	· Would be the sixth HERCEPTIN® biosimilar to be FDA-approved after HERZUMA®, KANJINTI®, OGIVRI®, ONTRUZANT®, and TRAZIMERA®
<b>DRL_RI</b> <i>rituximab</i> IV infusion	Dr. Reddy's Laboratories	RITUXAN®	Non-Hodgkin's lymphoma, RA	BLA is under FDA review (BsUFA date: 2Q 2024)	Yes	· Would be the fourth RITUXAN® biosimilar to be FDA-approved after RIABNI™, RUXIENCE®, and TRUXIMA®

Drug Name	Manufacturer(s)	Biosimilar Reference Drug	Indication(s)	Status/Estimated Approval	Biosimilar Currently Launched?	Comments
<b>OPHTHALMOLOGY</b>						
<b>MYL1701P</b> <i>aflibercept</i> intraocular injection	Biocon and Johnson & Johnson	EYLEA®	Wet age-related macular degeneration (AMD)	BLA is under FDA review (BsUFA date: 2/25/2024)	No	Could be the first FDA-approved biosimilar to EYLEA®
<b>Xlucane</b> <i>ranibizumab</i> intraocular injection	Xbrane Biopharma and Bausch + Lomb	LUCENTIS®	Wet AMD	BLA is under FDA review (BsUFA date: 4/21/2024)	Yes	Would be the third LUCENTIS® biosimilar to be FDA-approved after BYOOVIZ™ and CIMERLI®
<b>FYB203</b> <i>aflibercept</i> intraocular injection	Formycon	EYLEA®	Wet AMD	BLA is under FDA review (BsUFA date: 6/29/2024)	No	Could be one of the first FDA-approved biosimilars to EYLEA®
<b>CTP42</b> <i>aflibercept</i> intraocular injection	Celltrion	EYLEA®	Wet AMD	BLA is under FDA review (BsUFA date: 6/29/2024)	No	Could be one of the first FDA-approved biosimilars to EYLEA®

Recent Approvals			
GENERIC NAME	BRAND NAME	MANUFACTURER(S)	MARKET LAUNCH DATE
<i>teriparatide</i>	FORTEO <sup>®</sup>	Teva Pharmaceuticals	11/17/2023
<i>mifeprisone</i>	KORLYM <sup>®</sup>	Teva Pharmaceuticals	1/19/2024
Pipeline Agents			
GENERIC NAME	BRAND NAME	MANUFACTURER(S)	ANTICIPATED LAUNCH DATE
<i>nilotinib hydrochloride</i>	TASIGNA <sup>®</sup>	Apotex	1/31/2024
<i>lamivudine/raltegravir</i>	DUTREBIS <sup>™</sup>	Undetermined	4/4/2024
<i>dasatinib</i>	SPRYCEL <sup>®</sup> (20, 50, 70, 80, 100, 140 mg)	Apotex	9/1/2024

Includes generic agents with ≥ 50% launch probability



Term	Definition
<b>AA</b>	alopecia areata
<b>AADC</b>	aromatic L-amino acid decarboxylase
<b>ABR</b>	annualized bleeding rate
<b>AChR</b>	acetylcholine receptor
<b>AD</b>	Alzheimer's disease
<b>AMD</b>	age-related macular degeneration
<b>AML</b>	acute myeloid leukemia
<b>ARIA</b>	amyloid-related imaging abnormalities
<b>ARSA</b>	arylsulfatase A
<b>AS</b>	ankylosing spondylitis
<b>ATTRv-PN</b>	transthyretin-mediated amyloid polyneuropathy
<b>BCG</b>	bacillus Calmette-Guérin
<b>BiTE</b>	bispecific T-cell engager
<b>BLA</b>	biologics license application
<b>BMI</b>	body mass index
<b>BRCA</b>	breast cancer gene
<b>BsUFA</b>	Biosimilar User Fee Act
<b>BTC</b>	biliary tract cancer
<b>CAR T-cell</b>	chimeric antigen receptor T-cell
<b>CD</b>	Crohn's disease

Term	Definition
<b>CDC</b>	Centers for Disease Control and Prevention
<b>CDR-SB</b>	Clinical Dementia Rating-Sum of Boxes
<b>CKD</b>	chronic kidney disease
<b>CLDN18.2</b>	claudin 18.2
<b>CLL</b>	chronic lymphocytic leukemia
<b>CMS</b>	Centers for Medicare & Medicaid Services
<b>COPD</b>	chronic obstructive pulmonary disease
<b>CRBSI</b>	catheter-related bloodstream infection
<b>cSCC</b>	cutaneous squamous cell carcinoma
<b>cTTP</b>	congenital thrombotic thrombocytopenic purpura
<b>CV</b>	cardiovascular
<b>DEB</b>	dystrophic epidermolysis bullosa
<b>DED</b>	dry eye disease
<b>DLBCL</b>	diffuse large B-cell lymphoma
<b>DMD</b>	Duchenne muscular dystrophy
<b>EB</b>	epidermolysis bullosa
<b>EGFR</b>	epidermal growth factor receptor
<b>ERT</b>	enzyme replacement therapy
<b>EVH</b>	extravascular hemolysis
<b>ET</b>	essential thrombocythemia

Term	Definition
<b>FIX</b>	factor IX
<b>FVIII</b>	factor VIII
<b>FDA</b>	Food and Drug Administration
<b>FIGO</b>	Federation Internationale de Gynecologie et d'Obstetrique (in French); International Federation of Gynecology and Obstetrics (in English)
<b>FL</b>	follicular lymphoma
<b>FOP</b>	fibrodysplasia ossificans progressiva
<b>GA</b>	geographic atrophy
<b>GCA</b>	giant cell arteritis
<b>GEJ</b>	gastroesophageal junction
<b>GIP</b>	glucose-dependent insulinotropic polypeptide
<b>GLP-1</b>	glucagon-like peptide-1
<b>gMG</b>	generalized myasthenia gravis
<b>HAE</b>	hereditary angioedema
<b>HDAC</b>	histone deacetylase
<b>HER</b>	human epidermal growth factor receptor
<b>HF</b>	heart failure
<b>HR</b>	hormone receptor
<b>HS</b>	hidradenitis suppurativa
<b>ICER</b>	Institute for Clinical and Economic Review
<b>IV</b>	intravenous

Term	Definition
<b>JAK1</b>	Janus Kinase 1
<b>JAK2</b>	Janus Kinase 2
<b>JEB</b>	junctional epidermolysis bullosa
<b>LAD-1</b>	leukocyte adhesion deficiency-1
<b>LBCL</b>	large B-cell lymphoma
<b>LRTD</b>	lower respiratory tract disease
<b>MACE</b>	major adverse cardiovascular events
<b>MASH</b>	metabolic dysfunction-associated steatohepatitis
<b>mCRPC</b>	metastatic castration-resistant prostate cancer
<b>MDD</b>	major depressive disorder
<b>MDS</b>	myelodysplastic syndrome
<b>MI</b>	myocardial infarction
<b>MF</b>	myelofibrosis
<b>MLD</b>	metachromatic leukodystrophy
<b>MS</b>	multiple sclerosis
<b>MuSK</b>	muscle-specific tyrosine kinase
<b>NCD</b>	National Coverage Determination
<b>NMIBC</b>	non-muscle invasive bladder cancer
<b>NPC</b>	nasopharyngeal carcinoma
<b>NSAA</b>	North Star Ambulatory Assessment
<b>NSCLC</b>	non-small cell lung cancer

Term	Definition
<b>NTF</b>	neurotrophic factor
<b>PAH</b>	pulmonary arterial hypertension
<b>PBC</b>	primary biliary cholangitis
<b>PD-L1</b>	programmed death-ligand 1
<b>PH1</b>	primary hyperoxaluria type 1
<b>pJIA</b>	polyarticular juvenile idiopathic arthritis
<b>pLGG</b>	pediatric low-grade glioma
<b>PPD</b>	post-partum depression
<b>PNH</b>	paroxysmal nocturnal hemoglobinuria
<b>PsA</b>	psoriatic arthritis
<b>PV</b>	polycythemia vera
<b>RA</b>	rheumatoid arthritis
<b>RDEB</b>	recessive dystrophic epidermolysis bullosa
<b>RRMM</b>	relapsed or refractory multiple myeloma
<b>RSV</b>	respiratory syncytial virus
<b>SC</b>	subcutaneous
<b>SCD</b>	sickle cell disease
<b>SCLC</b>	small cell lung cancer
<b>sJIA</b>	systemic juvenile idiopathic arthritis
<b>SLL</b>	small lymphocytic lymphoma
<b>T2DM</b>	type 2 diabetes mellitus

Term	Definition
<b>TDT</b>	transfusion-dependent $\beta$ -thalassemia
<b>TFPI</b>	tissue factor pathway inhibitor
<b>TGF</b>	transforming growth factor
<b>UC</b>	ulcerative colitis
<b>UTI</b>	urinary tract infection
<b>VEGF</b>	vascular endothelial growth factor
<b>VOC</b>	vaso-occlusive crisis
<b>VOE</b>	vaso-occlusive event
<b>WAC</b>	Wholesale Acquisition Cost
<b>WHIM</b>	warts, hypogammaglobulinemia, infections, and myelokathexis

AcariaHealth is a national comprehensive specialty pharmacy focused on improving care and outcomes for patients living with complex conditions, such as hepatitis C, multiple sclerosis, oncology, rheumatoid arthritis, hemophilia, cystic fibrosis and other conditions. Offering specialized care management services in these disease states, AcariaHealth is dedicated to enhancing the patient care offering, collaborating with providers and capturing relevant data to measure patient outcomes.

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