

Therapy name	Breyanzi (lisocabtagene maraleucel)
Manufacturer	Bristol-Myers Squibb
Phase of development	Pending FDA approval
Туре	Supplemental indication
Breakthrough therapy designation	No
Drug class	Chimeric antigen receptor (CAR) T-cell therapy, autologous/gene therapy, ex vivo
Indication	The treatment of adults with relapsed or refractory marginal zone lymphoma who have received at least 2 prior lines of systemic therapy
Route of administration & frequency	Injection-IV, one time
FDA decision date	12/5/25
Projected launch quarter/half	4Q
Projected launch year	2025
Estimated potential US candidates	11,700 adult patients

Therapy name	clemidsogene lanparvovec
Manufacturer	Nippon Shinyaku/RegenxBio
Phase of development	Pending FDA approval
Type	New biologic
Breakthrough therapy designation	No
Drug class	Gene therapy, in vivo
Indication	The treatment of mucopolysaccharidosis type II (Hunter syndrome) in patients ages 5 years and younger
Route of administration & frequency	Injection-intracerebral, one time
FDA decision date	2/8/26
Projected launch quarter/half	1Q
Projected launch year	2026
Estimated potential US candidates	<25 pediatric patients

Therapy name	etuvetidigene autotemcel
Manufacturer	Fondazione Telethon
Phase of development	Pending FDA approval
Туре	New biologic
Breakthrough therapy designation	No
Drug class	Gene therapy, ex vivo
Indication	The treatment of Wiskott-Aldrich syndrome
Route of administration & frequency	Injection-IV, one time
FDA decision date	3/11/26
Projected launch quarter/half	1Q
Projected launch year	2026
Estimated potential US candidates	430 adult and pediatric patients

Therapy name	Kresladi (marnetegragene autotemcel)
Manufacturer	Rocket Pharmaceuticals
Phase of development	Pending FDA approval
Type	New biologic
Breakthrough therapy designation	No
Drug class	Gene therapy, ex vivo
Indication	The treatment of severe leukocyte adhesion deficiency type 1 in patients ages 3 months and older
Route of administration & frequency	Injection-IV, one time
FDA decision date	3/28/26
Projected launch quarter/half	1Q
Projected launch year	2026
Estimated potential US candidates	150 pediatric patients

Therapy name	DB-OTO
Manufacturer	Regeneron Pharmaceuticals
Phase of development	Phase I/II
Туре	New biologic
Breakthrough therapy designation	No
Drug class	Gene therapy, in vivo
Indication	The treatment of congenital hearing loss due to mutations of the otoferlin gene in patients ages 17 years and younger
Route of administration & frequency	Injection-intracochlear, one time per ear
FDA decision date	TBD
Projected launch quarter/half	1Q
Projected launch year	2026
Estimated potential US candidates	800 – 6,400 pediatric patients

Therapy name	dalnacogene ponparvovec
Manufacturer	Belief Biomed Inc./Takeda
Phase of development	Pending FDA approval
Type	New biologic
Breakthrough therapy designation	No
Drug class	Gene therapy, in vivo
Indication	The treatment of hemophilia B in adults
Route of administration & frequency	Injection-IV, one time
FDA decision date	4/10/26
Projected launch quarter/half	2Q
Projected launch year	2026
Estimated potential US candidates	2,200 adult patients

Therapy name	vusolimogene oderparepvec
Manufacturer	Replimune Group Inc.
Phase of development	Pending FDA approval
Type	New biologic
Breakthrough therapy designation	Yes
Drug class	Gene therapy, in vivo
Indication	The treatment of unresectable or metastatic cutaneous melanoma after progression on anti-PD1 therapy, in combination with nivolumab (e.g., Opdivo, Opdivo Qvantig)
Route of administration & frequency	Injection-intratumoral, multi-dose
FDA decision date	4/10/26
Projected launch quarter/half	2Q
Projected launch year	2026
Estimated potential US candidates	78,800 adult patients

Therapy name	anitocabtagene autoleucel
Manufacturer	Arcellx, Inc./Gilead Sciences/Kite
Phase of development	Phase II
Туре	New biologic
Breakthrough therapy designation	No
Drug class	Chimeric antigen receptor (CAR) T-cell therapy, autologous/gene therapy, ex vivo
Indication	The treatment of relapsed or refractory multiple myeloma after at least 3 prior systemic therapies in adults
Route of administration & frequency	Injection-IV, one time
FDA decision date	TBD
Projected launch quarter/half	3Q
Projected launch year	2026
Estimated potential US candidates	51,300 adult patients

Therapy name	cretostimogene grenadenorepvec
Manufacturer	CG Oncology
Phase of development	Phase III
Туре	New biologic
Breakthrough therapy designation	Yes
Drug class	Gene therapy, in vivo
Indication	The treatment of high-risk, non-muscle invasive, Bacillus Calmette-Guérin (BCG)-refractory bladder cancer with carcinoma in situ with or without Ta or T1 papillary tumors
Route of administration & frequency	Injection-intravesical, multi-dose
FDA decision date	TBD
Projected launch quarter/half	3Q
Projected launch year	2026
Estimated potential US candidates	14,600 – 19,500 adult patients

Therapy name	pariglasgene brecaparvovec
Manufacturer	Ultragenyx Pharmaceutical
Phase of development	Phase III
Type	New biologic
Breakthrough therapy designation	No
Drug class	Gene therapy, in vivo
Indication	The treatment of glycogen storage disease type 1a in patients ages 8 years and older
Route of administration & frequency	Injection-IV, one time
FDA decision date	TBD
Projected launch quarter/half	3Q
Projected launch year	2026
Estimated potential US candidates	3,100 adult and pediatric patients

Therapy name	rebisufligene etisparvovec
Manufacturer	Ultragenyx Pharmaceutical
Phase of development	Pending FDA approval
Type	New biologic
Breakthrough therapy designation	No
Drug class	Gene therapy, in vivo
Indication	The treatment of mucopolysaccharidosis type IIIA (also known as Sanfilippo syndrome type A)
Route of administration & frequency	Injection-IV, one time
FDA decision date	TBD
Projected launch quarter/half	3Q
Projected launch year	2026
Estimated potential US candidates	820 – 4,100 adult and pediatric patients

Therapy name	bidridistrogene xeboparvovec (SRP-9003)
Manufacturer	Sarepta Therapeutics
Phase of development	Phase III
Туре	New biologic
Breakthrough therapy designation	No
Drug class	Gene therapy, in vivo
Indication	The treatment of limb girdle muscular dystrophy type 2E/R4 in ambulatory and non-ambulatory patients ages 4 years and older
Route of administration & frequency	Injection-IV, one time
FDA decision date	TBD
Projected launch quarter/half	4Q
Projected launch year	2026
Estimated potential US candidates	<1,000 adult and pediatric patients

Therapy name	isaralgagene civaparvovec
Manufacturer	Sangamo BioSciences
Phase of development	Phase I/II
Type	New biologic
Breakthrough therapy designation	No
Drug class	Gene therapy, in vivo
Indication	The treatment of Fabry disease in adults
Route of administration & frequency	Injection-IV, one time
FDA decision date	TBD
Projected launch quarter/half	4Q
Projected launch year	2026
Estimated potential US candidates	3,300 adult patients

Therapy name	sonpiretigene isteparvovec
Manufacturer	Nanoscope Therapeutics
Phase of development	Phase II
Type	New biologic
Breakthrough therapy designation	No
Drug class	Gene therapy, in vivo
Indication	The treatment of retinitis pigmentosa in adults
Route of administration & frequency	Injection-intraocular, one time per eye
FDA decision date	TBD
Projected launch quarter/half	4Q
Projected launch year	2026
Estimated potential US candidates	67,000 – 76,000 adult patients

Therapy name	olvimulogene nanivacirepvec
Manufacturer	Genelux
Phase of development	Phase III
Туре	New biologic
Breakthrough therapy designation	No
Drug class	Gene therapy, in vivo
Indication	The treatment of platinum-resistant or refractory ovarian cancer, in combination with platinum-based chemotherapy and bevacizumab
Route of administration & frequency	Injection-intraperitoneal, one time
FDA decision date	TBD
Projected launch quarter/half	1H
Projected launch year	2027
Estimated potential US candidates	39,800 adult patients

Therapy name	OCU400
Manufacturer	Ocugen
Phase of development	Phase III
Туре	New biologic
Breakthrough therapy designation	No
Drug class	Gene therapy, in vivo
Indication	The treatment of retinitis pigmentosa in patients ages 5 years and older
Route of administration & frequency	Injection-intraocular, one time per eye
FDA decision date	TBD
Projected launch quarter/half	1Q
Projected launch year	2027
Estimated potential US candidates	80,000 – 92,000 adult and pediatric patients

Therapy name	RGX202
Manufacturer	RegenxBio
Phase of development	Phase I/II
Type	New biologic
Breakthrough therapy designation	No
Drug class	Gene therapy, in vivo
Indication	The treatment of Duchenne muscular dystrophy in ambulatory patients ages 1 – 11 years
Route of administration & frequency	Injection-IV, one time
FDA decision date	TBD
Projected launch quarter/half	1Q
Projected launch year	2027
Estimated potential US candidates	1,200 pediatric patients

Therapy name	RPA501
Manufacturer	Rocket Pharmaceuticals
Phase of development	Phase II
Type	New biologic
Breakthrough therapy designation	No
Drug class	Gene therapy, in vivo
Indication	The treatment of Danon disease in males ages 8 years and older
Route of administration & frequency	Injection-IV, one time
FDA decision date	TBD
Projected launch quarter/half	1Q
Projected launch year	2027
Estimated potential US candidates	7,500 – 15,000 adult and pediatric patients

Therapy name	detalimogene voraplasmid
Manufacturer	enGene Holdings
Phase of development	Phase I/II
Туре	New biologic
Breakthrough therapy designation	No
Drug class	Gene therapy, in vivo
Indication	The treatment of high-risk, non-muscle invasive bladder cancer with carcinoma in situ with or without papillary tumors that is unresponsive to Bacillus Calmette-Guérin therapy
Route of administration & frequency	Injection-intravesical, multi-dose
FDA decision date	TBD
Projected launch quarter/half	2Q
Projected launch year	2027
Estimated potential US candidates	14,600 – 19,500 adult patients

Therapy name	lonvoguran ziclumeran (NTLA-2002)
Manufacturer	Intellia Therapeutics
Phase of development	Phase III
Type	New biologic
Breakthrough therapy designation	No
Drug class	Gene therapy, in vivo
Indication	The treatment of hereditary angioedema in adults
Route of administration & frequency	Injection-IV, one time
FDA decision date	TBD
Projected launch quarter/half	2Q
Projected launch year	2027
Estimated potential US candidates	5,300 adult patients

Therapy name	avalotcagene ontaparvovec
Manufacturer	Ultragenyx Pharmaceutical
Phase of development	Phase III
Type	New biologic
Breakthrough therapy designation	No
Drug class	Gene therapy, in vivo
Indication	The treatment of ornithine transcarbamylase deficiency in patients ages 12 years and older
Route of administration & frequency	Injection-IV, one time
FDA decision date	TBD
Projected launch quarter/half	2H
Projected launch year	2027
Estimated potential US candidates	2,600 – 4,100 adult and pediatric patients

Therapy name	AAVAQP1
Manufacturer	MeiraGTx
Phase of development	Phase II
Type	New biologic
Breakthrough therapy designation	No
Drug class	Gene therapy, in vivo
Indication	The treatment of radiation-induced late xerostomia in adults
Route of administration & frequency	Injection-intraparotid, one time per gland
FDA decision date	TBD
Projected launch quarter/half	3Q
Projected launch year	2027
Estimated potential US candidates	153,000 adult patients

Therapy name	ProstAtak (aglatimagene besadenovec)
Manufacturer	Candel Therapeutics
Phase of development	Phase III
Туре	New biologic
Breakthrough therapy designation	No
Drug class	Gene therapy, in vivo
Indication	The first-line treatment of adults with intermediate- to high-risk, localized prostate cancer, in combination with external beam radiation therapy and valacyclovir
Route of administration & frequency	Injection-intratumoral, multi-dose
FDA decision date	TBD
Projected launch quarter/half	3Q
Projected launch year	2027
Estimated potential US candidates	75,000 adult patients

Therapy name	Tecartus (brexucabtagene autoleucel)
Manufacturer	Gilead Sciences/Kite
Phase of development	Phase I/II
Туре	Supplemental indication
Breakthrough therapy designation	No
Drug class	Chimeric antigen receptor (CAR) T-cell therapy, allogeneic/gene therapy, ex vivo
Indication	The treatment of relapsed or refractory B-cell precursor acute lymphoblastic leukemia in patients ages 2 – 21 years
Route of administration & frequency	Injection-IV, one time
FDA decision date	TBD
Projected launch quarter/half	3Q
Projected launch year	2027
Estimated potential US candidates	2,800 pediatric and adult patients

Therapy name	cemacabtagene ansegedleucel
Manufacturer	Allogene Therapeutics
Phase of development	Phase II
Туре	New biologic
Breakthrough therapy designation	No
Drug class	Chimeric antigen receptor (CAR) T-cell therapy, allogeneic/gene therapy, ex vivo
Indication	Consolidation therapy in adults with minimal residual disease after response to first-line treatment of large B-cell lymphoma
Route of administration & frequency	Injection-IV, one time
FDA decision date	TBD
Projected launch quarter/half	4Q
Projected launch year	2027
Estimated potential US candidates	10,200 adult patients

Therapy name	laruparetigene zosaparvovec
Manufacturer	Beacon Therapeutics
Phase of development	Phase II/III
Type	New biologic
Breakthrough therapy designation	No
Drug class	Gene therapy, in vivo
Indication	The treatment of X-linked retinitis pigmentosa in males ages 8 – 50 years with a mutation in the RPGR gene
Route of administration & frequency	Injection-intraocular, one time per eye
FDA decision date	TBD
Projected launch quarter/half	4Q
Projected launch year	2027
Estimated potential US candidates	3,300 – 7,600 adult and pediatric patients

Therapy name	AAVGAD
Manufacturer	MeiraGTx
Phase of development	Phase II
Type	New biologic
Breakthrough therapy designation	No
Drug class	Gene therapy, in vivo
Indication	The treatment of Parkinson's disease
Route of administration & frequency	Injection-intracerebral, one time
FDA decision date	TBD
Projected launch quarter/half	1H
Projected launch year	2028
Estimated potential US candidates	740,000 adult patients

Therapy name	BBP812
Manufacturer	BridgeBio
Phase of development	Phase I/II
Туре	New biologic
Breakthrough therapy designation	No
Drug class	Gene therapy, in vivo
Indication	The treatment of Canavan disease
Route of administration & frequency	Injection-IV, one time
FDA decision date	TBD
Projected launch quarter/half	1Q
Projected launch year	2028
Estimated potential US candidates	40 pediatric patients annually

Therapy name	Invossa (tonogenchoncel-L)
Manufacturer	Kolon Group
Phase of development	Phase III
Туре	New biologic
Breakthrough therapy designation	No
Drug class	Gene therapy, in vivo
Indication	The treatment of knee osteoarthritis
Route of administration & frequency	Injection-intra-articular, one time per knee
FDA decision date	TBD
Projected launch quarter/half	1Q
Projected launch year	2028
Estimated potential US candidates	11.7 million adult patients

Therapy name	RPL301
Manufacturer	Rocket Pharmaceuticals
Phase of development	Phase II
Type	New biologic
Breakthrough therapy designation	No
Drug class	Gene therapy, ex vivo
Indication	The treatment of pyruvate kinase deficiency in patients ages 8 years and older
Route of administration & frequency	Injection-IV, one time
FDA decision date	TBD
Projected launch quarter/half	1Q
Projected launch year	2028
Estimated potential US candidates	590 – 1,600 adult and pediatric patients

Therapy name	soficabtagene geleucel
Manufacturer	Wugen
Phase of development	Phase II
Type	New biologic
Breakthrough therapy designation	No
Drug class	Chimeric antigen receptor (CAR) T-cell therapy, allogeneic/gene therapy, in vivo
Indication	The treatment of relapsed or refractory T-cell acute lymphoblastic leukemia or lymphoblastic lymphoma in patients ages 1 year and older
Route of administration & frequency	Injection-IV, one time
FDA decision date	TBD
Projected launch quarter/half	1Q
Projected launch year	2028
Estimated potential US candidates	4,800 – 10,100 adult and pediatric patients

Therapy name	Descartes08
Manufacturer	Cartesian Therapeutics
Phase of development	Phase III
Туре	New biologic
Breakthrough therapy designation	No
Drug class	Chimeric antigen receptor (CAR) T-cell therapy, autologous/gene therapy, ex vivo
Indication	The treatment of generalized myasthenia gravis in adults who are anti-AChR antibody-positive
Route of administration & frequency	Injection-IV, multi-dose
FDA decision date	TBD
Projected launch quarter/half	2Q
Projected launch year	2028
Estimated potential US candidates	71,000 adult patients

Therapy name	ixoberogene soroparvovec
Manufacturer	Adverum Biotechnologies
Phase of development	Phase III
Type	New biologic
Breakthrough therapy designation	No
Drug class	Gene therapy, in vivo
Indication	The treatment of neovascular (wet) age-related macular degeneration
Route of administration & frequency	Injection-intraocular, one time per eye
FDA decision date	TBD
Projected launch quarter/half	2Q
Projected launch year	2028
Estimated potential US candidates	2 million adult patients

Therapy name	surabgene lomparvovec (RGX314)
Manufacturer	AbbVie/RegenxBio
Phase of development	Phase III
Type	New biologic
Breakthrough therapy designation	No
Drug class	Gene therapy, in vivo
Indication	The treatment of neovascular (wet) age-related macular degeneration
Route of administration & frequency	Injection-intraocular, one time per eye
FDA decision date	TBD
Projected launch quarter/half	2Q
Projected launch year	2028
Estimated potential US candidates	2 million adult patients

#### **Abbreviations**

FDA - U.S. Food and Drug Administration

IV - Intravenous

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