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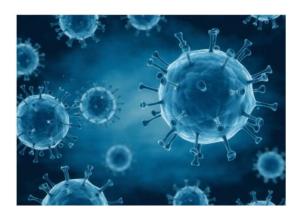


Cell Therapy vs. Gene Therapy

Cell Therapy:

Transferring modified cells into the body

Autologous - Patients Cells Allogeneic - Donor Cells



Gene Therapy:

- Gene Addition
- Altering or removing existing genes

Ex Vivo – Genetically modified outside of the body In Vivo – Genetic material directly inserted into the body



Current Landscape



Gene therapy landscape

- 33 cellular and gene therapy in market today
 - 23 cellular treatments
 - 10 gene therapy treatments
 - Another **7 10** treatments predicted to be approved by end of 2024
- Gene therapy treatments range in price from \$850,000 \$4.25M





Current Landscape (gene therapy)

Luxturna

- Spark Therapeutics; December 2017
- Treats: Leber Congenital Amaurosis (LCA)
- Cost: \$850,000 (425k per eye)
- Incidence: 1,000 to 2,000 patients in US

Zolgensma

- Novartis Gene Therapies, Inc.; May 2019
- Treats: Spinal Muscular Atrophy (SMA)
- Types 1 & 2 (Children ages 2 and under)
- Cost: \$2,100,000
- Incidence: 1 out of 10,000 births

Zynteglo

- BlueBird Bio, Inc..; August 2022
- Treats: Beta thalassemia
- Cost: \$2,800,000
- Incidence: 1,500 prospective patients in US

Skysona

- BlueBird Bio, Inc..; September 2022
- Treats: Cerebral Adrenoleukodystrophy
- Cost: \$3,000,000
- Incidence: 40 cases per year in the US

Hemgenix

- CSL Behring; November 2022
- Treats: Hemophilia B
- Cost: \$3,500,000
- Incidence: 1 in 25,000 male births

o Elevidys

- Sarepta; June 2023 FAILS ENDPOINT TRIAL
- Treats: Duchenne Muscular Dystrophy
- Cost: **\$3,500,000**
- Incidence: 6 out of 100,000

o Roctavian

- BioMarin; June 2023
- Treats: Hemophilia A
- Cost: \$2,900,000
- Incidence: 12 out of 100,000 males

o Vyjuvek

- Krystal Biotech, Inc.; May 2023
- Treats: Dystrophic Epidermolysis Bullosa
- Cost: \$1,300,000 over 25 weeks
- Incidence: 3.3 out of 1,000,000 in US

Casgevy

- Vertex Pharmaceuticals; December 2023
- Treats: Sickle Cell (ages 12+)
- Cost: \$2,200,000
- Incidence: 100,000 in US

Lyfgenia

- BlueBird Bio, Inc.; December 2023
- Treats: Sickle Cell (ages 12+)
- Cost: \$3,100,000
- Incidence: 100,000 in US

Lenmeldy

- Orchard Therapeutics; JUST APPROVED
- Metachromatic leukodystrophy
- Cost: \$4,250,000
- Incidence: Ultra-rare



Current Landscape (common cell therapy's)

o Kymriah

Novartis; August 2017

Treats: ALL and Non-Hodgkin lymphoma

Cost: \$447,000-\$570,000

Incidence: Rare

Yescarta

Kite Pharma, Inc.; April 2022

Large B-cell Non-Hodgkin lymphoma

Cost: \$478,000Incidence: Rare

Tecartus

Kite Pharma, Inc.; October 2021

Treats: Relapsed mantle cell lymphoma

Cost: \$478,000

Incidence: Ultra-rare

Breyanzi

Bristol-Myers Squibb, Co.; JUST APPROVED

Treats: LBCL, CLL & SLL

Cost: \$492,000Incidence: Rare

Abecma

Bristol-Myers Squibb, Co.; March 2021

Treats: Multiple myeloma

Cost: \$503,000

Incidence: Rare

o Carvykti

Janssen Biotech, Inc.; February 2022

Treats: Multiple Myeloma

Cost: \$500,000

Incidence: Rare

o Adstiladrin

Ferring Pharm.; December 2022

Treats: High-grade bladder cancer

Cost: \$290,000

Incidence: Rare

o **Imlygic**

BioVex-Amgen, Inc.; October 2015

Treats: Melanoma

Cost: \$65.000

Incidence: Rare

Lantidra

CellTrans Inc.; June 2023

Treats: Type 1 diabetes

Cost: \$300.000

Incidence: Rare

o Provenge

Dendreon Pharma..; April 2010

Treats: Advanced prostate cancer

Cost: \$65,000

Incidence: Ultra-rare



Current Landscape (what's in the pipeline?)

Fidanacogene elaparvovec

Estimated Approval: 2024Treats: Hemophilia B in adults

Cost: TBD

Incidence: Ultra-rare

Fordadistrogene movaparvovec

Estimated Approval: 2024

Treats: DMDCost: TBD

Incidence: Ultra-rare

Olenasufligene relduparvovec

Estimated Approval: 2024

Treats: Lysosomal storage disorders

Cost: TBD

Incidence: Ultra-Rare

Lumevoq

Estimated Approval: 2024

Treats: LHON

Cost: TBD

Incidence: Ultra-rare

o **OTL-103**

Estimated Approval: 2024

Treats: Wiskott-Aldrich syndrome

Cost: TBD

Incidence: Ultra-rare

o Pariglasgene brecaparvovec

Estimated Approval: 2024Treats: Von Gierke disease

Cost: TBD

Incidence: Ultra-rare

Botaretigene sparoparvovec

Estimated Approval: 2024

Treats: X-linked retinitis pigmentosa

Cost: TBD

Incidence: Rare

Generx

Estimated Approval: 2024

Treats: Myocardial ischemia due to CAD

Cost: TBD

Incidence: 1.7% of population

Giroctocogene fitelparvovec

Estimated Approval: 2024-2025

Treats: Hemophilia A in adults

Cost: TBD

Incidence: Ultra-rare



Employer Risk

Expected Impact

| ETS Estimates* | 2020 | 2023 | 2026 |
|---------------------|--------|--------|---------|
| Available Therapies | 5 | 31 | 50 |
| Qualified Patients | 7 | 40 | 120 |
| Therapy Costs** | ~\$7M | ~\$51M | ~\$150M |
| Treatment PEPM | \$1.23 | \$7.65 | \$22.05 |
| TCOC** | ~12M | ~\$65M | ~\$190M |
| TCOC PEPM | \$1.62 | \$9.72 | \$28.80 |

^{*}Emerging Therapy Solutions provides data insights to health plans in order to maximize value for people in need of the newest complex and <u>costly therapies.Including both gene and cell therapy treatments</u>. About Emerging Therapy Solutions (ETS) and LifeTrac Network (emergingtherapies.com)

^{**}Above represents impact simulation for a million-member U.S. health plan, based on longitudinal data from over 90 million lives. TCOC – Total Cost of Care; PEPM – Per Member Per Month; Assumes 1.8 contract size



Gene Therapy: To cover or not to cover?



Why might employers consider not covering gene therapy?

Stop Loss Implications

Premium increases, laser liability, exclusions, plan document ambiguity



Compliance Risks

- Disabilities-based discrimination claim (e.g., extenuating circumstance exceptions)
- HIPAA Violation (e.g., mid-year changes due to impending claim)



Public Relations Risk

Negative publicity, child of an executive needs the life-saving treatment





Why might employers consider covering gene therapy?

No Other Alternatives

• Often, there are simply no alternatives to gene therapy. Gene therapies treat previously untreatable or difficult-to-treat conditions



Severe Disability

 Patients who are candidates for gene therapies can suffer from severe disability and/or painful early death without these treatments



Curative

 Some gene therapies may be curative, and cost associated with the ongoing treatment of disease symptoms may be reduced. This isn't universal to all gene therapies.



Recommended by ICER

 Institute for Clinical and Economic Review (ICER) is the gold standard in the U.S. for assessing the value of prescription drugs and medical treatments. Of the currently approved gene therapies, ICER has concluded that the therapies demonstrate positive value to society but the pricing often exceeds the maximum value identified.





Industry Solutions

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*Industry Solution Models

1. ASO Carrier PEPM 2. Carveout Gene Therapy Carrier PEPM 3. Embedded Stop Loss Carrier

| Consideration | Embarc ASO-Carrier Model | Berkshire Carveout Model | Berkley Embedded SL Model | Voya Embedded SL Model |
|--|---|---|---|---|
| Therapies Covered | Zolgensma, Luxturna, Skysona, Zynteglo, Hemgenix, Elevidys & Roctavian | Zolgensma, Luxturna, Skysona, Zynteglo, Spinraza | Zolgensma, Luxturna, Skysona, Zynteglo, Hemgenix, Elevidys & Roctavian | Zolgensma, Luxturna, Skysona, Zynteglo, Hemgenix, Elevidys & Roctavian |
| First-Dollar Coverage to Plan Sponsor | NO; 500K ISL | YES; Reimburses employer their ISL | NO; Subject to employer ISL w/ step-down for ETS. | NO; Subject to employer ISL |
| Portable | NO; unless over 20k ee's & bare on stop loss | YES; underlying stop loss must be placed via Stealth-Amwins A&H | NO | NO |
| Center of Excellence or Network Requirement | YES | NO | YES; Emerging Therapy Solutions for ISL step-down | NO |
| Available on a stand-alone basis | NO; unless over 20k ee's & bare on stop loss | NO; underlying stop loss must be placed via Stealth-Amwins A&H | NO | NO |
| Cost of Program | \$3 PEPM | \$1.99 PEPM | Included in underlying stop loss premiums | Included in underlying stop loss premiums |

^{*}Program disbursements are subject to coverage terms and exclusions.



Amwins-Stealth: Who we are



We're Amwins

We're the largest specialty wholesale insurance distributor in the U.S.* and we're devoted to your success.

With \$26B in annual premium and 6,200 employees worldwide, when you partner with us, you can count on:



Market knowledge and access to close tough deals. Our scale and clout with 1,500+ markets and MGAs are yours to tap into.



A global network of specialists and solutions who handle more than **1,500,000 submissions** each year.



A data-driven placement strategy, complemented by proprietary products and creative solutions



Our 150-year vision driving our decision-making. We're your partner for the long haul.



Stealth: Amwins Subsidiary



With focused expertise and a complete, unbiased commitment to providing quality, turnkey stop-loss solutions, since 2009 Stealth has made self-funding a more viable option that drives value for employer groups of all sizes.



Why Stealth?



Carrier Partnerships



Independent Experts



Comprehensive solution



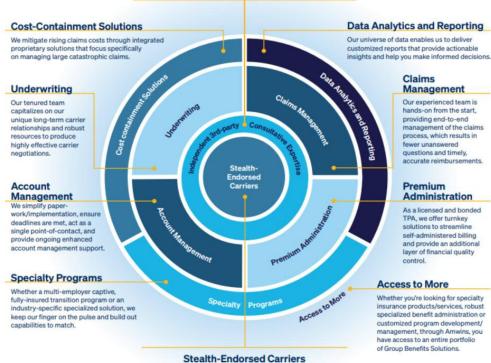
Access to more



With Stealth, you can expect so much more than just a quote.

Independent 3rd-Party Consultative Expertise

As career stop-loss professionals, you can trust our expertise, and as independent experts, you can trust our perspective.



We thoroughly evaluate each carrier before marking it with our seal of approval and only work with the industry's top markets.



THANK YOU!