

Gene Therapy Products Approved in 2022

Gene Therapy Products Approved in 2022

DOI: <http://dx.doi.org/10.29228/genediting.67056>

Sümbül Yıldırım

Abstract

Cell and gene therapy is a method used to treat genetically based diseases that currently have no effective treatments. The number of products available for cell and gene therapy has been rising annually in recent years. By 2025, the FDA predicts that it will have approved 10 to 20 novel cell and gene therapy products annually. The FDA's current list of authorized gene treatments includes 26 gene and cell-based products. The FDA and EMA have approved 8 cell-based and gene therapy products in 2022. We summarized the gene therapy medications authorized in 2022 in this review. Two gene therapy drugs (Skysona and Zynteglo) that were approved this year were previously approved and stopped marketing in Europe since the European market price could not be agreed upon. This year, the FDA approved the use of these two medications.

Keywords

gene editing, cell-based gene editing, gene editing products, genetic disease

References

- 1) Kaji EH, Leiden JM. Gene and Stem Cell Therapies. JAMA. 2001;285(5):545–550. doi:10.1001/jama.285.5.545
- 2) Center for Biologics Evaluation and Research. (n.d.). What is gene therapy? U.S. Food and Drug Administration. Retrieved December 13, 2022, from <https://www.fda.gov/vaccines-blood-biologics/cellular-gene-therapy-products/what-gene-therapy>
- 3) Center for Biologics Evaluation and Research. (n.d.). Approved cellular and gene therapy products. U.S. Food and Drug Administration. Retrieved December 13, 2022, from <https://www.fda.gov/vaccines-blood-biologics/cellular-gene-therapy-products/approved-cellular-and-gene-therapy-products>
- 4) Yıldırım, S., & Kocabaş, F. (2021). Gene therapy products reached to market by 2021. Gene Editing, 2(2), 1–21. <https://doi.org/10.29228/genediting.54101>
- 5) Cristina Santoro, Gabriele Quinta Valle, Erminia Baldacci, Antonietta Ferrett, Federica Riccardi: Inhibitors in Hemophilia B, Semin Thromb Hemost 2018; 44(06): 578-589

[Tam metne ulaşmak ve tüm referansları görmek için tıklayın.](#)