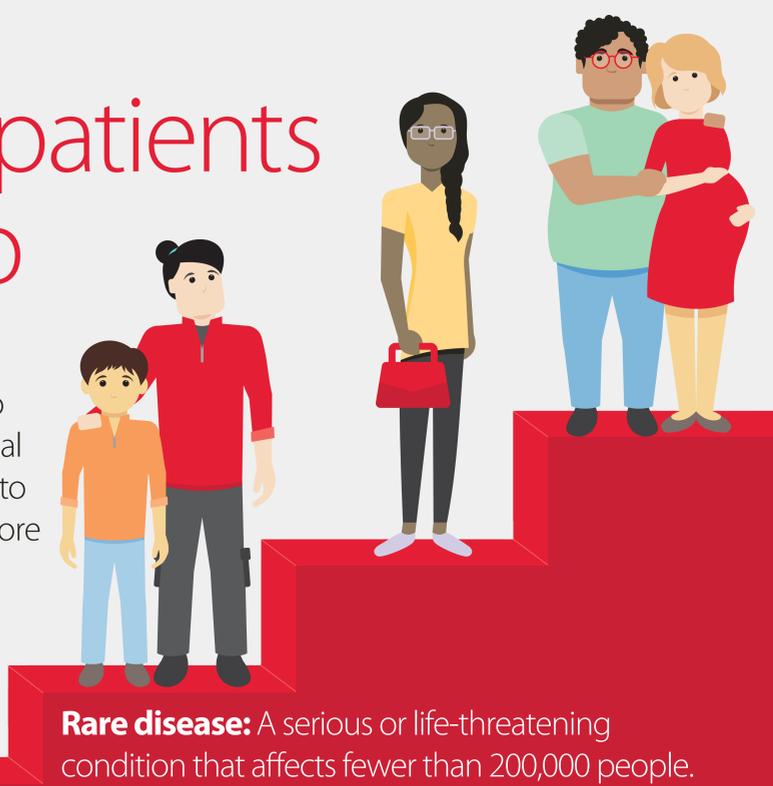


Rare Diseases 101

Supporting patients at every step

Cardinal Health works to ensure those living with a rare disease have access to therapy — from helping pharmaceutical companies secure regulatory approval to delivering life-saving medications to more than **20,000 patients annually**.



Rare disease: A serious or life-threatening condition that affects fewer than 200,000 people.

Solving a global health challenge

People living with a rare disease:

300M+ worldwide¹



Correct diagnosis can take 7+ years due to a lack of disease understanding and awareness.³

Some rare diseases are well known:

- Muscular dystrophy
- Huntington's disease
- ALS (Lou Gehrig's disease)
- Tourette syndrome
- Sickle cell disease
- Cystic fibrosis

Thousands more are not.



Due to small patient populations,

95%

have no FDA-approved treatment²



More therapeutic options than ever

600+ ✓

FDA-approved treatments since the 1983 Orphan Drug Act⁴

300+ 🔬

cell and gene therapies currently under development⁵



Expert support from Cardinal Health

Cardinal Health Regulatory Sciences

has supported regulatory applications for **40+ orphan drugs** in the past five years

Cardinal Health 3PL Services

handled the logistics for **10 orphan drugs** of the 31 approved by the FDA 2021

Cardinal Health Real World Evidence and Insights

has gathered real-world data on rare cancers from our research networks of **375+ physicians**

Cardinal Health Sonexus™ Access & Patient Support

We leverage our advanced technology and expertise to help remove obstacles to care for patients with rare diseases.

Serving **20K+** patients annually

Dispensing **114K+** therapies*

Responding to **120K+** patient calls*

Learn more about our work to help fight rare disease at info.cardinalhealth.com/RareDisease

* Between 2019 and 2021.

References: 1. Jostz L. Not so rare: 300 million people worldwide affected by rare diseases. AJMC Web site. <https://www.ajmc.com/view/not-so-rare-300-million-people-worldwide-affected-by-rare-diseases>. Published November 7, 2019. Accessed February 4, 2022. 2. QuintilesIMS Institute. Orphan drugs in the United States: providing context for use and cost. <https://rarediseases.org/wp-content/uploads/2017/10/Orphan-Drugs-in-the-United-States-Report-Web.pdf>. Published October 2017. Accessed February 4, 2022. 3. Value of medicines for rare diseases. Pfizer. https://cdn.pfizer.com/pfizercom/health/Value_of_Medicine_Rare_Diseases.pdf. Published February 2017. Accessed February 15, 2022. 4. U.S. FDA. Orphan drug modernization plan. <https://www.fda.gov/media/106012/download>. Published June 29, 2017. Accessed February 4, 2022. 5. Powaleny A. New report shows nearly 300 cell and gene therapies in development. PhRMA Web site. <https://catalyst.phrma.org/medicines-in-development-for-cell-and-gene-therapy>. December 6, 2018.

© 2022 Cardinal Health. All Rights Reserved. CARDINAL HEALTH, the Cardinal Health LOGO and SONEXUS are trademarks of Cardinal Health and may be registered in the US and/or in other countries. All other trademarks are the property of their respective owners. Patent cardinalhealth.com/patents. Lit. No. 15522-1832459 (03/2022)

