



Shire: A Champion in the Fight Against Rare Diseases

There are an estimated 350 million people worldwide living with a rare disease.¹ In fact, if everyone with a rare disease lived in one country, it would be the world's third most populous country.^{**} At Shire, we are motivated by our passion to help patients, our deep history and expertise in rare diseases and our innovative scientific approaches that will help us to deliver results for the rare disease community. Every day, Shire works tirelessly to be a champion for those impacted by rare disease, including patients, families and caregivers.


THERAPEUTIC AREAS OF FOCUS


 Genetic Diseases

 Neuroscience

 Hematology

 Internal Medicine

 Immunology

 Oncology

 Ophthalmology

FOCUSED ON INNOVATION FOR PATIENTS

40

pipeline programs with ~70% for a rare disease indication

30+

studies in Phases 1 – 3*

16

rare diseases treated with our medicines

100+

relationships built with advocacy organizations globally

23k

employees in 60+ countries

RARE DISEASES BY THE NUMBERS



~7,000
rare diseases identified²



~80%
of rare diseases are genetic in origin³



~40%
of people receive at least one misdiagnosis^{4***}



~50%
of rare diseases begin in childhood⁵

Learn more at Shire.com



*To find out about Shire's clinical trials, visit www.shiretrials.com

1. Posada M, Taruscio D, Groft, S. Rare Diseases Epidemiology: Update and Overview. 2nd Edition. 2017. Vol. 1031. DOI: 10.1007/978-3-319-67144-4.

2. Engel PA, Bagal S, Broback M, Boice N. Physician and Patient Perceptions Regarding Physician Training in Rare Diseases: The Need for Stronger Educational Initiatives for Physicians. *J Rare Disorders*. Available at: <http://www.journalofrareorders.com/pub/IssuePDFs/Engel.pdf>. Accessed January 19, 2018.

3. Institute of Medicine (US) Committee on Accelerating Rare Diseases Research and Orphan Product Development; Field MJ, Boat TF, editors. Washington (DC): National Academies Press (US); 2010. Available at: <https://www.ncbi.nlm.nih.gov/books/NBK56184/>. Accessed December 6, 2017.

4. Kole A., Faurisson F. (2010) Rare Diseases Social Epidemiology: Analysis of Inequalities. In: Posada de la Paz M., Groft S. (eds) Rare Diseases Epidemiology. Advances in Experimental Medicine and Biology, Vol. 686. Springer, Dordrecht.

5. Ionita C. Drug Development in Rare Diseases Presents Many Unique Challenges. *Rare Disease Report*. Available at: <http://www.rarecdr.com/news/drug-development-challenges>. Accessed January 19, 2018.

**Source: globalgenes.org

***According to results from the EurordisCare Survey Program; The EurordisCare2 Survey (conducted September 2003–June 2006).

© Shire 2018. All rights reserved. SHIRE and the Shire logo are registered trademarks of Shire Pharmaceutical Holdings Ireland Limited or its affiliates.