## The Tools You Need to Accelerate Rare Disease Drug Development

Patients with rare diseases have high unmet medical needs.

Over

Rare Diseases Identified

of Rare Diseases Have a

Global Approved Drug In 2024, CDER approved 50 novel drugs, but significant

unmet needs persist worldwide.

What makes something a "rare or a neglected disease"? There is no universally accepted definition as the prevalence criteria varies by region/country.

Regulatory Agency	Prevalence Criteria	Reference
U.S. FDA	200,000	Orphan Drug Act, 1983
EMA	5/10,000	EC 141/2000
Japan PMDA	50,000	JPMA, 2008
Australia	2000	Therapeutic Goods Act, 1989

Rare Disease Affects More Than

People Worldwide

to encourage the development of treatments for diseases 500 SAPROXIMATELY 3000

Countries worldwide have implemented various mechanisms

of People Affected By Rare Diseases Are Children

of Children With These **Debilitating Diseases** Will Not Live To See Their 5th Birthday 

While rare disease drug development is challenging, the experts at Certara can help!

tools to discern effects in small patient populations.

## Sensitive patient populations

We model the impact of a new drug on other disease states or untested

We provide end-to-end regulatory support and medical writing services:

from meetings with health authorities to preparation and submission of

**Small patient pools** 

We use clinical pharmacology expertise in combination with MIDD

Of Rare Diseases

**Are Genetic** 

populations. Unique regulatory landscape

## marketing applications. Reimbursement challenges

We develop a quantitative multi-criteria decision analysis-based

framework adapted to the very specific issues in rare disease development and access including quality of evidence, disease severity, ethical considerations, population-level factors, economic impact of the disease, and specific budgetary impact.

We have broad therapeutic expertise in rare disease

drug development

**Gastrointestinal** 

• Short Bowel Syndrome

## Fever • Duchenne Muscular Pompe Disease • Restless Leg Syndrome • Pediatric Crohn's Disease Gaucher Disease Dystrophy Hunter's Disease • Spasticity due to Multiple Carcinoid Syndrome Cystic Fibrosis Sclerosis Hypophosphatasia Metachromatic Leukodystrophy Disease Hypophosphatasia • PKAN (Pantothenate Oncology Kinase-associated • Transthyretin-mediated Chronic Liver Disease Other

• Lennox-Gastaut Syndrome

Fabry Disease

**Amyloidosis** 

Urea Cycle Disorder

ACE-induced HAE

• Hereditary Anglodema

- Anthrax Orthopoxvirus/Smallpox
- **Antinfectives/Antivirals**

**Genetic & Hereditary** 

- mediated Amyloidosis
- Respiratory Syncytial Virus

development-resource-center/

Symptomatic Botulism

• Familiar Mediterranean

Huntington's Disease

• Dravet Syndrome

Thrombocytopenia

• Hereditary Transthyretin-

 Metastatic Myeloma Multiple Myeloma · Acute Myeloid Leukemia

• Urinary Bladder Cancer

Leukemia

Acute Lymphoblastic

- Blood Cancer
- Ovarian Cancer
- (Photodynamic Therapy) • BRAF Mutation
- **Blood Disorders** Paroxysmal Nocturnal

Neurodegeneration)

• Friedreich's Ataxia

CNS

Myasthenia Gravis

- Hemoglobinuria • Atypical Haemolytic Uremic Syndrome (aHUS)
- Cell Beta-thalassemia)
- Beta-thalassemia (Sickle
- Hypoparathyroidism Molybdenum Deficiency Peyronie's Disease

• Hyperuricemia in Patients

• Neglected Tropical Diseases

Radiation Poisoning

**Bone & Muscle Disease** 

• X-linked Hypophosphatemia

with Gout Refractory • Hepatic Veno-occlusive Disease

Onchocerciasis

We have partnered with biopharmaceutical companies of all sizes on drug development plans for a wide range of rare/orphan diseases.

Learn more about our unparalleled experience in Orphan Drug

**CERTARA**