

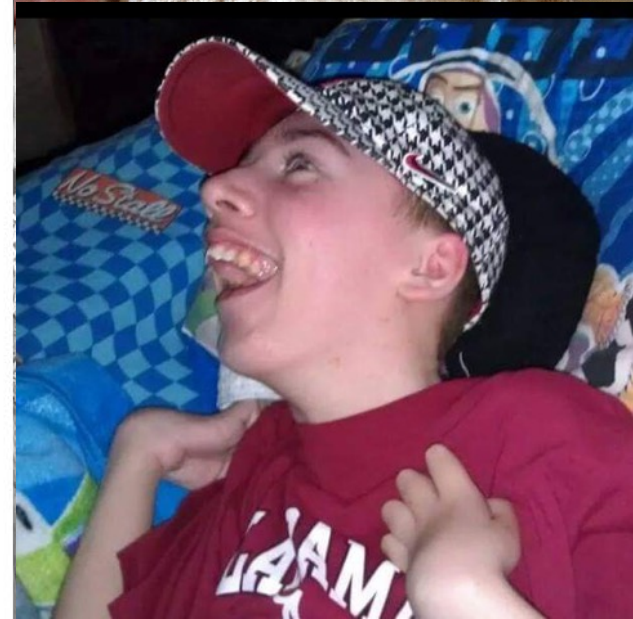


Advancing Research Through the Krabbe Community United Research and Engagement Study (KrabbeCURES)

Presented by: KrabbeConnect and NORD

December 15, 2020

Alone we are rare. Together we are strong.®



Overview

- Background and Overview of KrabbeConnect
- Distinction between GLIA-CTN and KrabbeCURES
- Background and Overview of NORD
- NORD IAMRARE™ Platform
- The Importance of KrabbeCURES
- Getting involved in KrabbeCURES



KrabbeConnect

- KrabbeConnect incorporated on Feb 5th, 2018
- The idea for KrabbeConnect originated from the 2015 [Family Centered-Krabbe Translational Research Network meeting \(FC-KTRN\)](#), a collaborative meeting between researchers and families to aid in solving the uncertainties of Krabbe disease.
- KrabbeConnect, provides a platform to amplify the voice of patients, aiding researchers and drug developers in accelerating research for better treatments for Krabbe disease.
- KrabbeCURES came to fruition as a result of many conversations, since inception, with stakeholders in Krabbe disease. The Krabbe disease community needed an effective tool to fill gaps in research. KrabbeConnect's board of directors selected the IAMRARE platform at NORD.



Studies, Registries, and Survey's-Oh My!

Collection of information about individuals

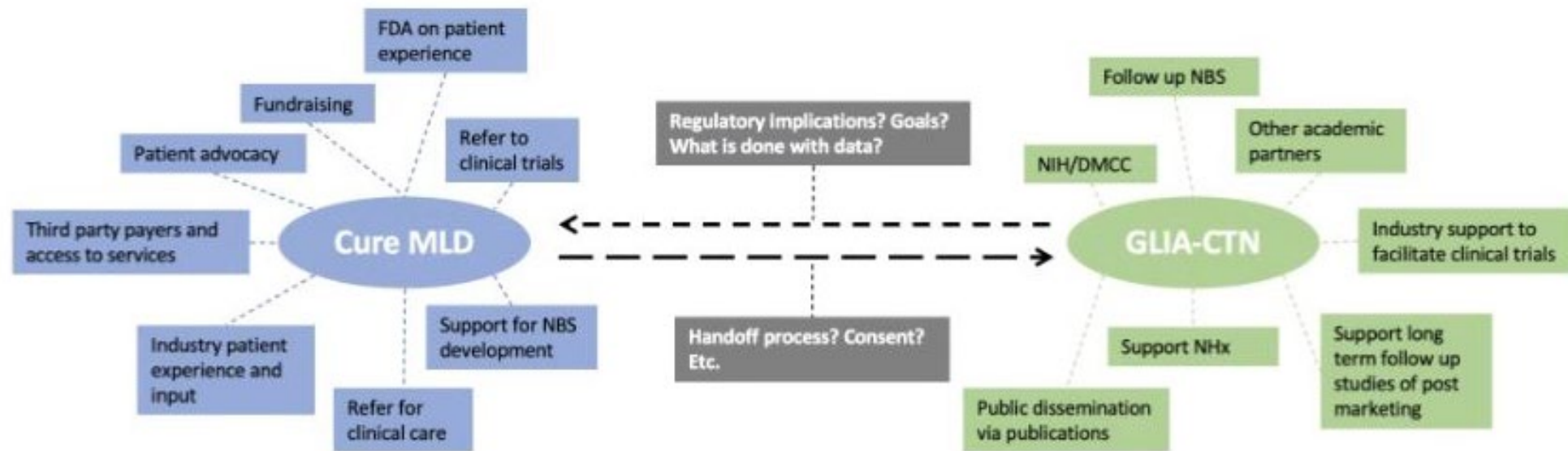
- Specific disease or diagnosis
- General patient demographics
- Genetic Information
- Patient-reported outcomes
- Comprehensive medical data
- Clinical trial matching

Main types of registries

- Contact registries
- Patient registries



GLIA-CTN Registry



Very **different data** being accumulated by **GLIA-CTN** versus **KrabbeCURES**.

Aim of KrabbeCURES

To be a **data-collection study for patients** around the world to share information about globoid cell leukodystrophy (Krabbe disease) **that will fill current and future gaps in research.**

- Understand the burden of Krabbe disease
- Provide a convenient online platform for participants (or caregivers) to self-report cases of globoid cell leukodystrophy (Krabbe disease).
- Characterize and describe the globoid cell leukodystrophy population as a whole, enhancing the understanding of disease prevalence and phenotype as well as the rate of progression of disease characteristics.
- Develop a communications study within KrabbeCURES (e.g., to notify patients of research studies and clinical trials).
- Assist the globoid cell leukodystrophy community with the development of recommendations and standards of care.
- Be a case-finding resource to be used for researchers who seek to study the pathophysiology of Krabbe disease, retrospectively collate intervention outcomes, and design prospective trials of novel treatments.



About KrabbeCURES

Launched on **August 27, 2020** and includes surveys to capture data on:

- Demographics
- Medical, Diagnostic and Treatment Data
- Quality of Life
- Developmental Milestones
- Therapy
- Symptoms and side effects

Principal Investigator:

- Vanessa Boulanger, NORD

Co-Investigator:

- Stacy Pike-Lagenfeld, KrabbeConnect



rarediseases.org

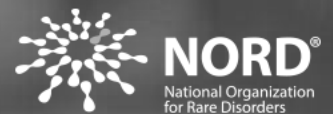
Important Insights about KrabbeCURES

1. It's IRB approved. This means informed consent is obtained from participants to allow the participants de-identified data to be utilized for future research.
2. The accumulation of quality data under an IRB will produce peer-reviewed publications. Peer-reviewed articles have become the trusted form of scientific communication to stakeholders (industry, NBS committees, FDA, researchers, etc.).
3. It's representative of the patient voice because it's patient reported data/results.
4. Krabbe disease community owns the engagement study and will be available to other researchers, nonprofit org., academic institutions, etc.



NORD, an independent nonprofit, is leading the fight to improve the lives of **rare disease patients and families**.

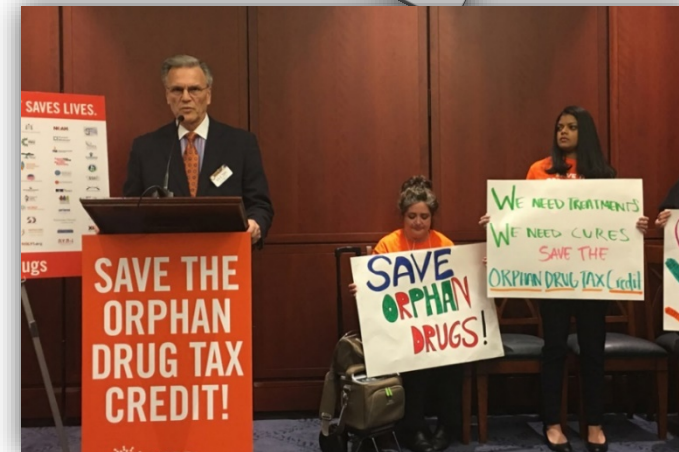
We do this by supporting patients and organizations, accelerating research, providing education, disseminating information and driving public policy.



rarediseases.org

The Orphan Drug Act

- From 1967 to 1983, only 34 drugs approved by the Food and Drug Administration (FDA) were for rare diseases.
- Only 10 of the products brought to market by the pharmaceutical industry in the decade before 1983 would have qualified under today's ODA as orphan drugs.
- A task force, whose members included staff of the FDA and National Institutes of Health (NIH), considered individuals with rare diseases to be an **underserved patient community** and felt that the plight of these patients and their families was a **public health issue**.



Core Programs & Services

RESEARCH

- Research grants for translational or clinical studies
- IAMRARE™ Registry Platform & NHS program
- Original research and publications

PATIENT SERVICES

- Premium, copay and coinsurance support
- Diagnostic and genetic testing
- Ancillary services
- Clinical trial recruitment and travel & lodging
- Emergency relief programs

MEMBERSHIP SERVICES

- Advocacy
- Capacity Building
- Mentorship & Education
- Visibility & Credibility

EDUCATION

- Patient and family education
- Medical professional education
- Annual Rare Diseases & Orphan Products Breakthrough Summit
- Rare disease mentorship & workshops for patient advocacy groups

POLICY AND ADVOCACY

- Federal and State Policy
- Regulatory Affairs
- Rare Action Network® Grassroots advocacy coalition present in all 50 states
- Advocate training workshops

Our Stakeholders

PATIENTS & FAMILIES

Undiagnosed
Newly Diagnosed
Caregivers

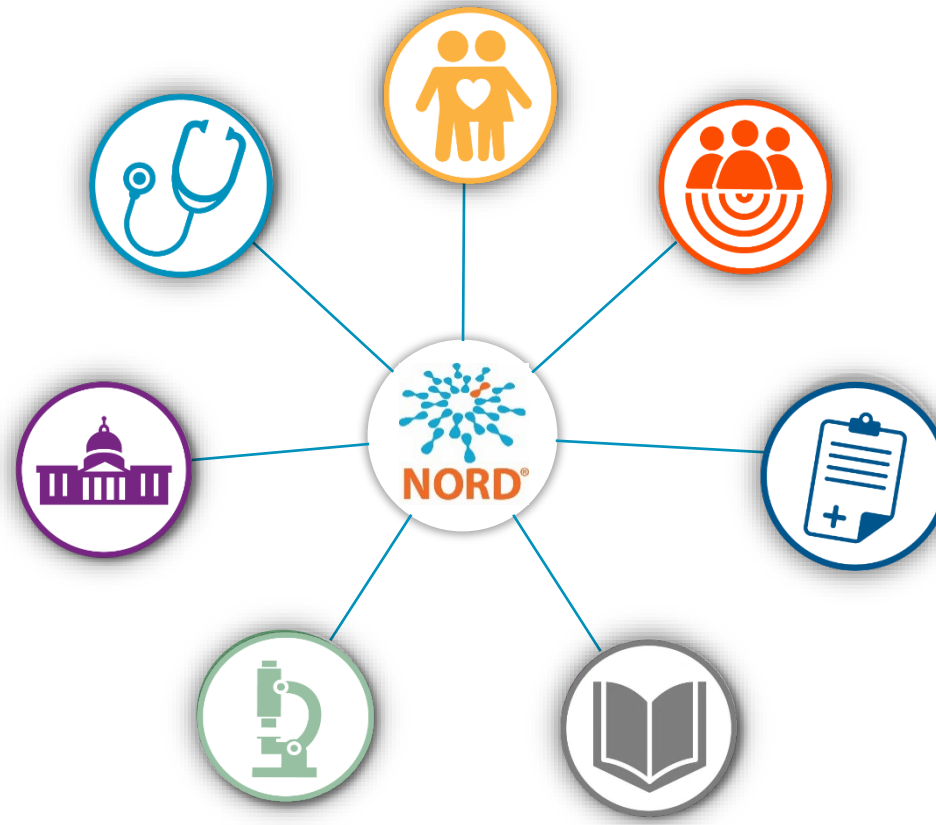
MEDICAL PROFESSIONALS

LEGISLATORS

House & Senate
HELP Committee
Ways & Means Committee
Energy & Commerce Committee

INDUSTRY

Biotechnology
Pharmaceutical
Research Organizations
Service Providers



PATIENT ORGANIZATIONS

Research Foundations
Disease-Specific Advocacy Organizations
Support Groups

PAYORS

Pharmacy Benefit Managers (PBMs)
Private Insurers
Medicaid/Medicare

REGULATORS

Food and Drug Administration (FDA)
National Institutes of Health (NIH)
Centers for Medicaid and Medicare (CMS)
Social Security Administration (SSA)



rarediseases.org

Accelerating Research

“ The IAMRARE team at NORD is absolutely committed to helping rare disease patient organizations run low-cost, high-quality natural history studies. NORD’s understanding of the needs, goals and challenges of a small nonprofit like ours is in a league of its own. ”

- Member, Fibrous Dysplasia Foundation



rarediseases.org



Challenges for Rare Patients

- Little known about disease progression and burden
- Few medical experts
- Delays in diagnosis
- Limited FDA-approved treatments
- Extensive, life-long medical needs
- High cost of care and treatment
- Small, scattered patient populations
- Social isolation

Core Research Objectives

- Advancing basic and translational research for rare diseases.
- Supporting data collection for discovery, review and approval of new treatments and orphan products.
- Aid researchers with clinical trial design, endpoints and biomarkers.
- Original research and publication to inform legislative and regulatory decision-makers on the challenges and opportunities in rare diseases.
- Empower patients to contribute to research for their disease.
- Galvanize and support organizations in launching research grant programs and natural history studies.



The IAMRARE™ Platform

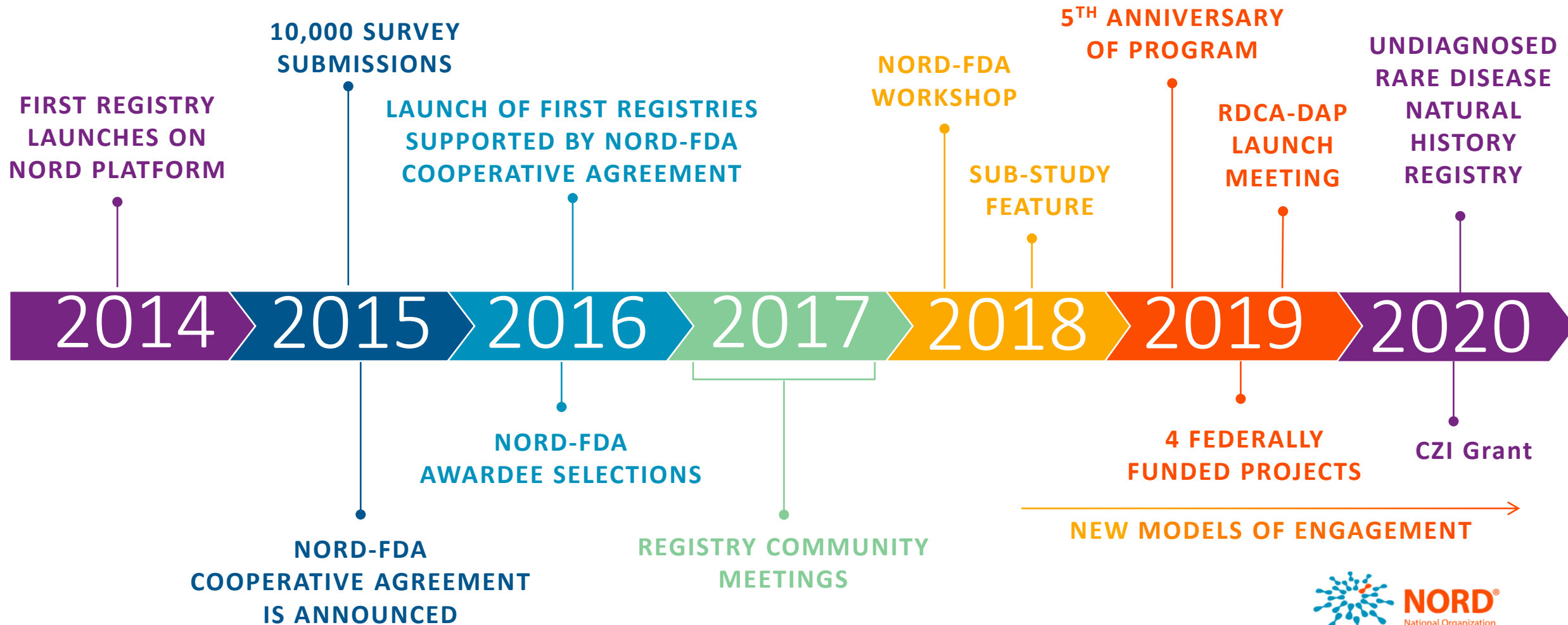


*Marcia Galan and her daughter, Alena, diagnosed
with Mucopolysaccharidosis type VI (MPS VI)*



rarediseases.org

History of the IAMRARE Program



IAMRARE Platform

Since **2014** Launch:

40+

Rare
Conditions

11,000+

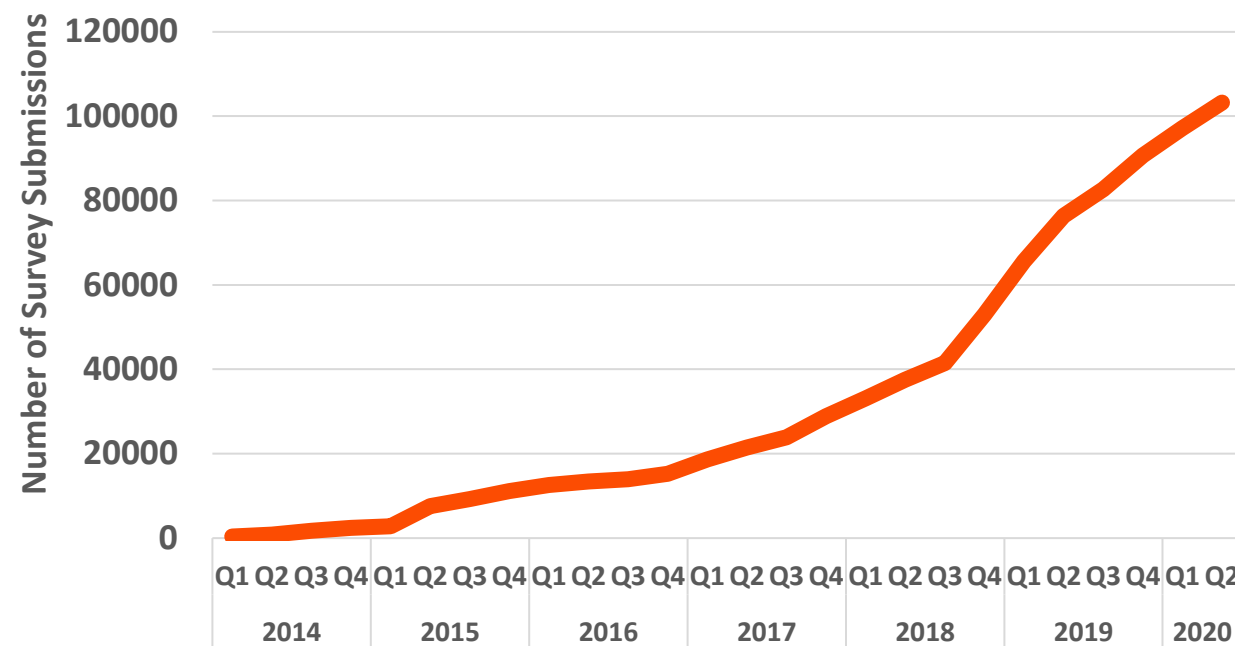
Participants

100,000+

Survey Submissions



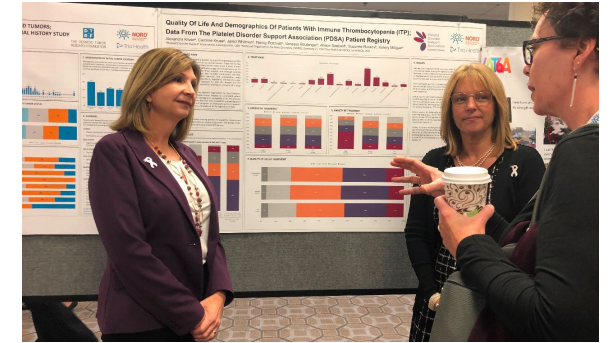
Total Number of
IAMRARE™ Survey Submissions



Using the Data

Data collected through the IAMRARE Platform has been presented through many venues and formats:

- Patient/family conferences
- Medical conferences
- Webinars
- Patient Focused Drug Development meetings
- Publications
 - Medical journal articles
 - Peer-reviewed papers
- Posters
- Community Reports
- Research collaborations



The Power of Patients

THE POWER OF PATIENTS

*Informing Our Understanding
of Rare Diseases*



The Power of Patients amplifies the experiences of individuals and families living with rare diseases and demonstrates the importance of registries and natural history data in helping to shape the rare disease landscape.



rarediseases.org



The Power of Data from KrabbeCURES



rarediseases.org

KrabbeCURES Data will

- **Inform** patient care and best practices
- **Assess** patient and caregiver experiences and preferences
- **Contribute** to disease understanding
- **Identify** research priorities such as genetic, molecular and physical basis of rare diseases
- **Estimate** the number of affected patients and patients potentially available to participate in research
- **Evaluate** the individual and global economic burden of disease
- **Inform** drug development
- **Provide** an avenue for bio-specimen collection



The Power of KrabbeCURES

Patient Organizations

- Research partners and leaders
- New models of engagement
 - New members/collaborations
 - Expand/strengthen existing partnerships
 - Unite divided communities

Industry

- Collaborating with patient groups and supporting meaningful patient centered product development
- Models of partnerships
- Pair registry data with clinical trial data
- Clinical trial recruitment

Patients, Families & Caregivers

- Access to data
- Insights into patient outcomes
- Symptom tracking
- Resources for conversations with clinicians, educators

Clinicians

- Data as a reference point for patient reported outcomes (PRO)
- Access to patient cohorts
- Registry data to supplement existing clinical trial data
- Document conditions (no data, progression, transitions in care)
- Inform new and revised standards of care

• USER FEEDBACK •

What impact has your natural history study had on your organization and/or the community at large?

- ✓ *It has empowered our community to know that they have the power to influence research and knowledge about our disease.*
- ✓ *It has created excitement and hope within our community. Patients are beginning to understand that they have the ability to influence research.*



rarediseases.org

The Power of KrabbeCURES

Researchers

- Compare and validate experimental findings with PRO data
- Use trends from preliminary data to explore new areas of a disease
- Provide real world evidence when applying for research grants
- Inform product development
- Regulatory approvals
- Validate measures
- Establish new research protocols

Regulatory Agencies

- Registry data to accelerate and improve research
- Outcomes from clinical trials
- Transitions in care
 - Pediatric to adult
 - Treatment protocols
- Barriers to adherence and or compliance to treatment
- Contextualize clinical trial data
- New models of engagement
 - New members/collaborations
 - Expand/strengthen existing partnerships
 - Unite divided communities



How can you get involved with KrabbeCURES?




rarediseases.org



Madilyn Yang (far left) has been battling a rare breathing disorder since birth called Central Congenital Hypoventilation Syndrome (CCHS) or Ondine's Curse.

krabbecures.iamrare.org

[KRABBE CURES](#) [Home](#) [About ▾](#) [News](#) [Contact](#) ☐ Dark [Register](#) [Log in](#)



KrabbeCURES

Krabbe Community United Research and Engagement Study

[Learn more »](#)

Rare Disease Research

This is a unique rare disease patient registry. Are you interested in using our data to further your rare disease research?

[Researchers »](#)

Participating in This Study

Information collected during this study may be used to help provide opportunities for patients and researchers to collaborate in the rare disease community.




[Patients »](#)

Join the Registry

Please create an account and provide consent to participate in the study.

[Register »](#)

[More information about Krabbe Disease](#)



rarediseases.org

KrabbeCURES Resources



Figure 1. Landing Page
2. Click on the green Register button.

- Informational Brochures
- User guides
- FAQ Document
- Study Staff

Learn more at krabbeconnect.org

KrabbeCURES



Be the first to make a difference. Sign up today to be a part of KrabbeCURES.



Join the initiative at krabbecures.iamrare.org



Become a Partner

Are you looking to help make a difference for patients and families living with Krabbe disease? KrabbeConnect wants to collaborate with you! **LEARN MORE**



rarediseases.org

Questions?

- For information about **KrabbeCURES** go to

krabbecures.iamrare.org

Or email info@krabbeconnect.org

- For information about **KrabbeConnect** go to

Krabbeconnect.org

Or email info@krabbeconnect.org

- For information about **NORD** go to

<https://rarediseases.org/>

Or email orphan@rarediseases.org



rarediseases.org



Thank you.



Alone we are rare. Together we are strong.®

rarediseases.org