



NORD[®]
National Organization for Rare Disorders



2017 ANNUAL REPORT

Alone we are **rare**. Together we are strong.[®]

ABOUT RARE DISEASE

1 in 10 Americans are battling a rare disease, defined as one that affects fewer than 200,000 people in the United States. There are more than 7,000 rare diseases that have been identified. While each one affects a small number of patients, the number of those dealing with rare disease add up to close to 30 million Americans – at least half of whom are children. Holding hands, they would circle the globe 1.5 times.

ABOUT NORD[®]

OUR PEOPLE:

271 Member Organizations

84 Corporate Council Members

3,666 Rare Action Network[®] Members
and 28 State Ambassadors

459 Student Members and
Campus Leaders

6,000+ Participants Entering Data
in 19 Natural History Studies

125,000 Social Media Followers

OUR VISION:



A national awareness and recognition of the challenges endured by people living with rare diseases



A culture of innovation that supports basic and translational research to create diagnostic tests and therapies for all rare diseases



Access to adequate medical care and support services that improve patients' lives



A regulatory environment that encourages development and timely approval of safe, effective diagnostics and treatments

We Care!

Our small but mighty team of 61 staffers helped to make these remarkable accomplishments possible.

MESSAGE FROM THE CEO

Dear Friends,

Because of your support, 2017 was a remarkable year for rare diseases. Together we overcame challenges. We passed new laws and defeated harmful legislation. We helped patients and raised awareness. While supporting research and educating medical professionals, we saw medical advancements—including the first gene therapies—become available.

This year was particularly special at NORD, filled with many important firsts and program launches. A high point, for me personally, was watching one of our Rare Action Network® State Ambassadors, a mother of a rare disease patient who had never done any advocacy with legislators, transform from being a quiet novice to a powerhouse in meetings with her elected officials.

On the research side, several patient groups launched natural history studies with NORD's IAMRARE™ platform and received an overwhelming response, with many from their patient communities eager to join. Fulfilling two long-time goals, we hosted NORD's first-ever Continuing Medical Education program and brought to life an inspiring, year-long public awareness campaign. This type of work is what NORD is all about – building programs and events that have a ripple effect throughout the rare disease community and beyond.

As we move forward, we know that we will face new challenges and yet we remain dedicated to the cause that keeps us going: the urgent needs of patients and the knowledge that we are having a direct impact on their health and well-being every day.

We look forward to working with our advocates and members and to supporting each other in the years ahead. We offer our gratitude to all of the friends and donors who are part of our fight.

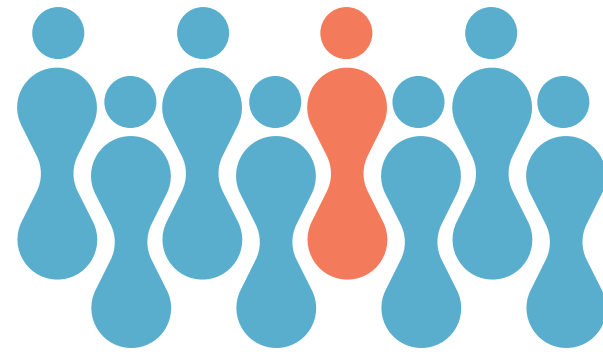
Thank you,



Peter L. Saltonstall,
President and CEO



THE NORD[®] IMPACT:



Patients and families battle rare diseases on multiple fronts: medically, financially, physically and emotionally. With programs of advocacy, research, education and financial assistance, NORD is there for our rare community providing support and leading transformative change.

2017 BY THE NUMBERS:

8.6M people and organizations reached through NORD's programs.

NORD raised awareness of rare disease across numerous media outlets:

14.2M page views on our website.



150k phone calls answered at our call center.



19 states passed new laws benefiting the rare community because of NORD's efforts.



570 events that we hosted or attended that brought people together for rare diseases.



3.6k people became effective advocates with Rare Action Network[®] training.



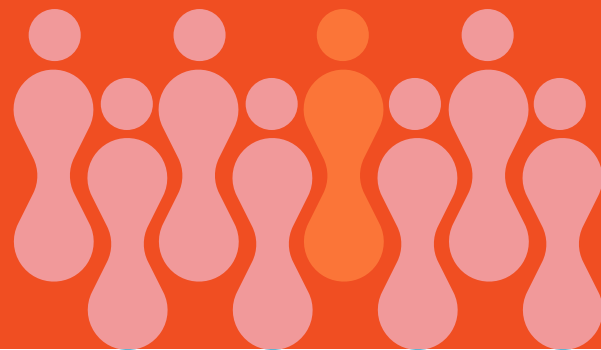
9.1B earned media impressions generated publicity for our cause.

POLITICO

The New York Times

The Washington Post

PROVIDING PATIENT SERVICES



Since 1987, NORD—a pioneer in Patient Assistance Programs—has been helping children and families gain access to specialized medical care they could not otherwise afford.

Our RareCare™ programs provide patients with 360° support.

OUR IMPACT IN 2017

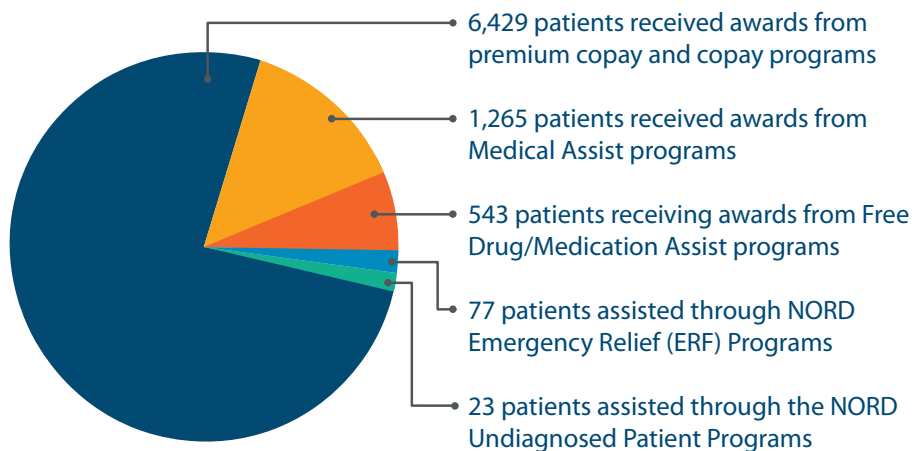
8,337 PATIENTS HELPED

IN ALL 50 STATES, D.C., GUAM AND PUERTO RICO

1,732 WERE CHILDREN

\$31.7M IN AID GIVEN

DIRECTLY TO PATIENTS TO HELP WITH INSURANCE COSTS, PREMIUM AND CO-PAY EXPENSES, MEDICAL EXPENSES NOT COVERED BY INSURANCE, AND OTHER ASSISTANCE FOR PEOPLE WHO WERE WITHOUT INSURANCE



Thank You

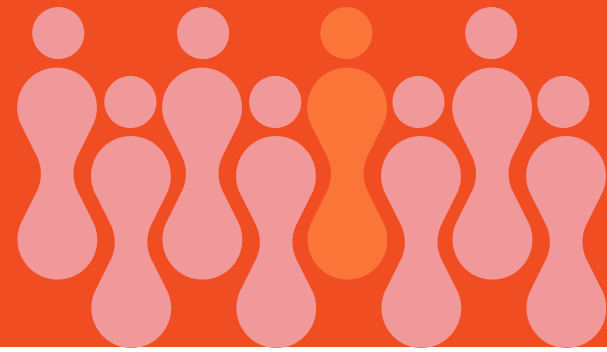
"I want NORD to know how much I appreciate all you do for me in this difficult time in my life."

-Charles, a patient with Familial Amyloid Polyneuropathy

"On behalf of Zachary and our family, we are extremely grateful to NORD for being so responsive to our needs and helping us through what seemed like irresolvable issues."

-Ed, father of a rare patient thanking NORD for helping him and his son

ELIMINATING BARRIERS



DISEASES SERVED BY RARECARE IN 2017

Acute Lymphocytic Leukemia
Alpha-1 Antitrypsin Deficiency
Carnitine Deficiency
Cerebrotendinous Xanthomatosis (CTX)
Cervical Dystonia
Chorea
Chronic Granulomatous Disorder
Congenital Sucrase-Isomaltase Deficiency (CSID)
Cryopyrin-Associated Periodic Syndrome (CAPS)
Cushings Syndrome
Cutaneous T Cell Lymphoma
Cystinuria
Dermatitis Hepaformis
Downbeat Nystagmus
Duchenne Muscular Dystrophy (Nonsense Mutation Dystrophinopathy)
Gaucher's Disease
Hodgkins Lymphoma
Hunter's Syndrome (MPS II)
Hypophosphatasia IGF-1 Deficiency Ileal Pouch
Lambert-Eaton Myasthinec Syndrome (LEMS)
Morquio A Syndrome (MPS-IV-A)
Muckel-Wells Syndrome
Narcolepsy
Neonatal Onset Multisystem Inflammatory Disease
Nephropathic Cystinosis
Neurogenic Orthostatic Hypotension
Paroxysmal Nocturnal Hemoglobinuria (PNH)
Periodic Paralysis
Phenylketonuria (PKU)
Seizures Associated with LGS
Short Bowel Syndrome
Spasmodic Torticollis
Tardive Dyskinesia
Urea Cycle Disorders
Ulcerative Colitis
Undiagnosed

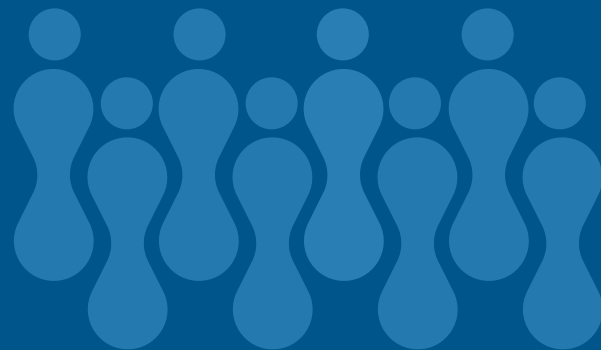
Thank You

"There are many additional costs raising a child with a rare disease. Financial support to pay for life sustaining medication is truly a gift... Thank you to everyone at NORD and its donors for being there."

-Peggy, mom of a child with PKU



RARE ACTION NETWORK[®]



The Rare Action Network[®] works hand in hand with patients to drive policy change through grassroots campaigns. We provide expertise in legislative and regulatory affairs, as well as gather and publish data-driven insights.

This year we mobilized the rare disease patient community in new ways. Through our efforts, we successfully advocated against two harmful federal proposals and took action in 45 states.

Thank You

"I want to thank you again for a fantastic training program. I am deeply grateful for your time and expertise. The exercise was on point to get us ready for advocating."

-Stephanie Bozarth
Chairman, Board of Directors,
National MPS Society

OUR IMPACT IN 2017

Together, with our **Rare Action Network Ambassadors** and **Advocates** we had

400+ MEETINGS THROUGHOUT THE YEAR

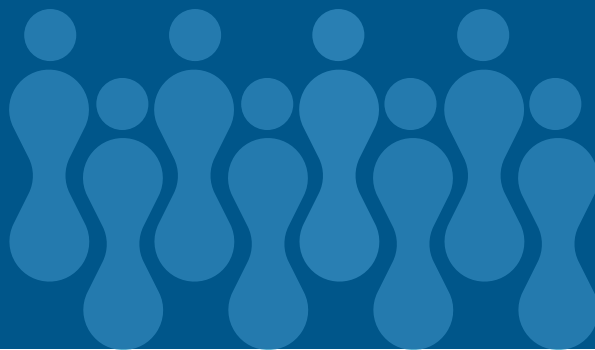
250 on Capitol Hill

35 with the FDA (28) and the NIH (7)

177 legislative events in **38** states

- ✓ Took action on **123** bills in **45** states
- ✓ Recruited and trained more than **3.6K** members and **28** state ambassadors to become effective advocates
- ✓ Hosted **7** advocacy training workshops
- ✓ Sent out **124** email blasts regarding policy alerts and activities

ADVOCACY IN ACTION

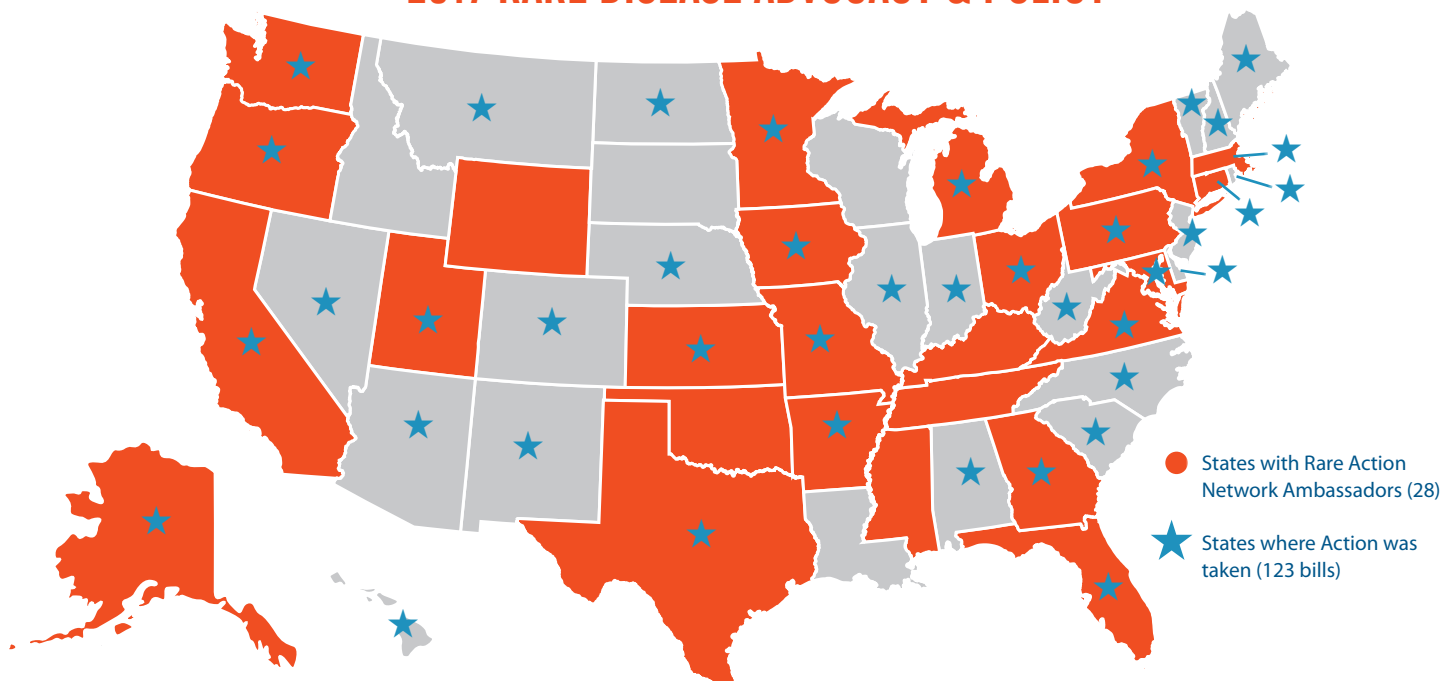


YOUR VOICE MATTERS

We work with our members and partners to achieve shared advocacy goals. National alliances include:

- ✓ Alliance for Healthcare Reform
- ✓ Alliance for a Stronger FDA
- ✓ American Plasma Users Coalition (A-PLUS)
- ✓ Coalition for Accessible Treatments (CAT)
- ✓ Medication Access for Patients Rx (MAPRx)
- ✓ National Health Council (NHC)
- ✓ Partners for Better Care
- ✓ Patients for Biologics Safety and Access (PBSA)
- ✓ Research!America
- ✓ Regulatory Education and Action for Patients (REAP)
- ✓ State Access to Innovative Medicines Coalition (SAIM)
- ✓ United States Pharmacopoeia (USP)

2017 RARE DISEASE ADVOCACY & POLICY



MEMBERSHIP



We strengthen the work of our Member Organizations, helping their leaders with resources, capacity-building training and making connections to maximize their impact.

We train members on good governance practices, fundraising, board management, medical education, managing medical advisory boards, registries, research, prioritizing policy, ICD-10 classifications and more.

OUR IMPACT IN 2017

271

members
from non-profit
patient patient
organizations

8

webinars presented
expert speakers including
the Director of the
National Center for
Advancing Translational
Sciences at NIH

6

bi-monthly
calls shared the
latest news from
across the rare
disease community

86

scholarships
awarded for Members
to attend NORD's
Summit and the
World Orphan Drug
Conference

- ✓ **Launched** the NORD Member Organization Facebook Group, where nearly 210 founders and executives participate daily in robust conversations about emerging issues
- ✓ **Launched** and launched the first weekly email newsletter for Members
- ✓ **Conducted** a Member Survey to better understand and meet the evolving needs of patient organizations

Thank You

"Your bi-monthly call was phenomenal. It always energizes me to get involved and do more. For lack of time, we often can't be present in all the wonderful projects NORD creates; however, knowing that they are there, and that we have a wide context to work from is always empowering... Thank you for all you do for us. We are so proud of being NORD members."

– Rachel Gomel, PSC Partners

STRONGER TOGETHER



OUR MEMBERS - WHO WE ARE



82%

were founded by parents or caregivers of someone with rare disease



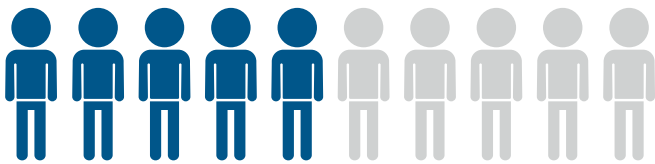
74%

are led by patients, parents or caregivers



82%

have fewer than 5 full-time employees



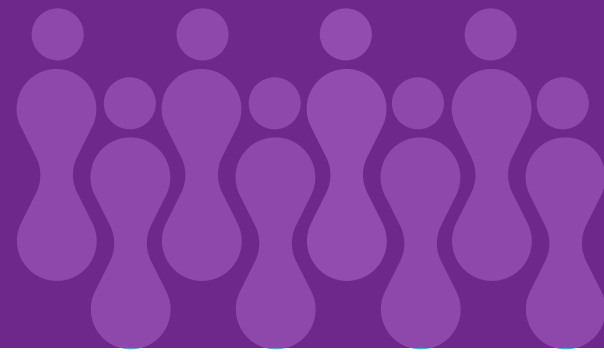
50%

nearly half employ zero full-time staff

VALUE OF MEMBERSHIP

- ✓ Advocacy Opportunities and Representation
- ✓ Access to Research Tools and Programs
- ✓ Event Scholarships and Discounts
- ✓ Capacity Building and Leadership Resources
- ✓ Access to Breaking News and In-Depth Analyses
- ✓ Peer Networking and Guidance
- ✓ Visibility and Promotional Opportunities
- ✓ Credibility

DRIVING RESEARCH



Our goal is to support the advancement of research so that new treatments can be developed more quickly to help patients.

Through NORD's IAMRARE™ platform, we provide support, guidance and training to patient organizations launching registries and natural history studies. Patient-powered natural history studies are transforming how patients and caregivers inform and shape medical research and translational science for rare diseases.

OUR IMPACT IN 2017

- ✓ **More than 6,000** participants around the world contributed data to IAMRARE studies
- ✓ **16 active** IAMRARE studies, with more under development
- ✓ **1 IAMRARE** study discovered a new mechanism for the disease's gene!
- ✓ **9 new** IAMRARE studies launched

IAMRARE STUDIES LAUNCHED

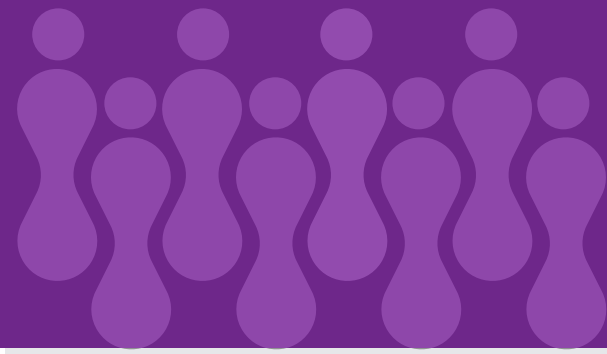
- **CCHS Network One World Registry** (for Congenital Central Hypoventilation Syndrome)
- **Charcot-Marie Tooth Research Network**
- **Desmoid Tumor Patient Registry**
- **International Pemphigus and Pemphigoid Foundation Natural History Registry**
- **ITP Natural History Study Registry** (for Immune thrombocytopenia)
- **Natural History Registry for Necrotizing Enterocolitis**
- **OMS Patient Registry** (for Opsoclonus Myoclonus Syndrome)
- **The OAA Natural History Patient Registry** (for organic acidemia disorders)
- **The PKU Registry** (for Phenylketonuria)

Thank You

"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

ACCELERATING PROGRESS



GRANTING HOPE

For many rare diseases, **our grants** represent the only source of research funding, providing financial support for researchers and also hope for the rare disease community.



✓ **7 published** peer-reviewed papers in 2017 cited NORD's funding support from prior grant cycles.

MAJOR RESEARCH DONATIONS RECEIVED

- **ACPMP Research Foundation**
(*\$164,000 for Appendix Cancer and PMP fund*)
- **The Hope Fund**
(*\$55,000 for Malonic Aciduria fund*)
- **Nicolas Vassalli**
(*\$30,000 for PACS1 fund*)
- **The David Ashwell Foundation**
(*\$22,420.57 for ACD/MPV fund*)
- **Alveolar Capillary Dysplasia Association**
(*\$20,100 for ACD/MPV fund*)
- **William Akers, Jr. & Georgia O. Akers Private Foundation, Inc.**
(*\$10,000 for ACD/MPV fund*)
- **Lundbeck "Raise Your Hand" Campaign 2017**
(*\$10,000 for rare disease research*)

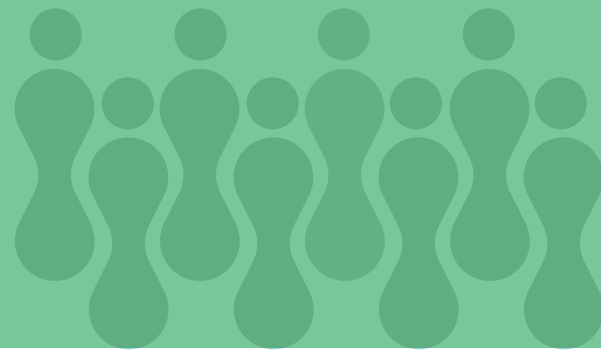
RESEARCH GRANT SNAPSHOT:

APPENDIX CANCER & PSEUDOMYXOMA PERITONEI (PMP)

(affects 1-2 cases per million individuals)

- J. Silvio Gutkind, PhD, University of California, San Diego
- D. Scott Merrell, PhD, Uniformed Services University of the Health Sciences
- Marc Pocard, MD, PhD, Institut national de la santé et de la recherche médicale (Inserm), Paris, France
- Traci L. Testerman, PhD, University of South Carolina School of Medicine

EDUCATIONAL INITIATIVES



NORD is proud to deliver education programs that are used around the world.

NORD's RareEDU® program provides educational resources to the rare community, including those living with a rare disease, caregivers, medical professionals, students, researchers and the media.

NORD's Rare Disease Database, with expert reviewed reports, together with an always evolving resource center featuring helpful videos, webinars, and other vital educational materials provide the foundation to help people better understand rare diseases and the impact of living with a rare disease.

OUR IMPACT IN 2017

Our online Rare Disease Reports are written in patient-friendly language with the help of independent medical professionals.

- ✓ **More than 200** new and updated reports added to the website
- ✓ **10.3 million views**, up by 23% since 2016
- ✓ **Residents from 237 different countries** accessed rare disease reports
- ✓ **Cited by** Time, Newsweek, People, ABC News, CNN, MSN, CNBC, Forbes, San Francisco Chronicle, Houston Chronicle, Nature, Health.com and other news outlets

RARE DISEASE REPORTS



Our partnerships with medical publishers allow us to publish news from NORD and our member organizations in journals for medical professionals. Through our student programs, we are educating future health care professionals.

- ✓ **Hosted** our first-ever Continuing Medical Education (CME) program
- ✓ **Reached 30k** medical professionals through our Neurological Diseases Special Report (3rd edition) published with Neurology Reviews
- ✓ **Partnered** and published content with Medscape, WebMD, Frontline Medical Communications and Rare Disease Report
- ✓ **8** new Student Chapters and **5** Student Clubs created

PROGRAMS FOR MEDICAL PROFESSIONALS & STUDENTS



ADVANCING EDUCATION



THE NORD RARE DISEASES AND ORPHAN PRODUCTS BREAKTHROUGH SUMMIT®

The 2017 Rare Summit was our largest conference to date, with more than 60 research posters and 60 lunch and learn roundtable discussions. We exchanged ideas, made personal connections and planned future collaborations.

✓ **700 participants** attended the 2017 NORD Summit

We were thrilled to see several NORD Member Organizations getting together with FDA leaders to talk one-on-one about rare diseases and were inspired by keynote speakers: FDA Commissioner Scott Gottlieb, M.D., and Mike Porath, founder of The Mighty.



Our events provide educational content for a broad audience representing all stakeholder groups within the rare disease community.

- Spoke on behalf of patients at a major conference hosted by National Institute of Nursing Research at NIH
- Organized a speaker panel, at the request of the Social Security Administration, for SSA's National Disability Forum on Compassionate Allowances and Rare Diseases.

100%

of CME attendees said the content enhanced their knowledge

91%

were likely or very likely to make changes in their practice based on conference learnings

COMMUNITY EVENTS & AWARENESS

With new programs and record-breaking participation, we took education and awareness to new levels.

Thank You

"I have only 34% lung capacity. People ask me why I am doing this. The simple answer is to raise awareness of PCD and other rare diseases. I'm part of the charity team for the National Organization for Rare Disorders (NORD)'s Running for Rare team.

I want to bring attention to the limitations imposed on people who require oxygen. My mother-in-law literally had her oxygen supply rationed with lethal results. Those of us with rare diseases must fight for treatments which do not have FDA approval. I am taking a stand — a walk — for those of us with rare diseases who will not stay quietly at home."

**-Mary Kitlowski,
Running for Rare Participant,
TCS New York City Marathon 2017**

OUR IMPACT IN 2017



Running for Rare, brought together 50 dedicated runners and 54 community partners to raise more than \$125,000 with the goal to assist patients seeking a diagnosis.

They inspired us as participants in events across the country, including:

- TCS New York City Marathon
- Boston Marathon
- Providence Full- and Half-Marathons
- Eversource Hartford Marathon
- Skechers Performance Los Angeles Marathon

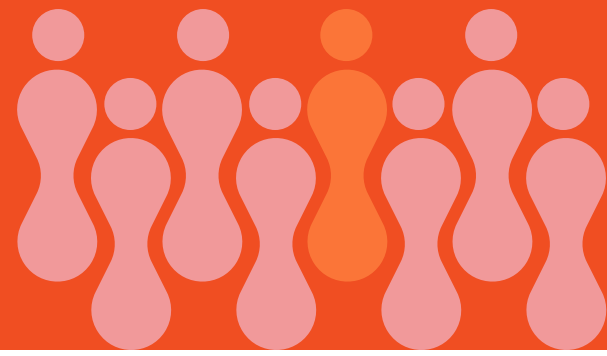


Rare Disease Day, an international day of awareness, is the biggest day of the year in rare diseases. NORD was honored to serve as the host of the campaign in the U.S. for another successful year!

OUR CAMPAIGN FEATURED:

- ✓ **43** educational and advocacy events
- ✓ Shared **1,700** new patient stories trended on social media
- ✓ Generated 4,300 media articles to raise awareness

DOING OUR SHARE



DO YOUR SHARE FOR RARE Campaign



Launched on Rare Disease Day, “Do Your Share for Rare” featured the voices and stories of many living with a rare disease to inspire and encourage those living outside of the community to get involved in ways big or small. A community-driven public service announcement kicked off the campaign.

34 patient videos submitted

82,334k views

GOOD MORNING PEYTON Documentary

Imagine never being allowed to feel the sun on your skin. For 11-year-old Peyton, who has a rare disease that makes him allergic to sunlight, that is a reality.

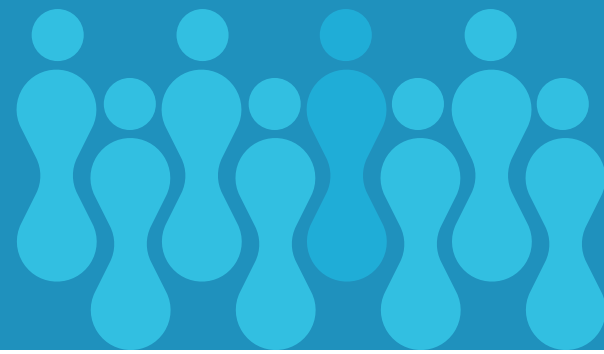
We partnered with Peyton’s hometown to turn one special night into day for him, and developed an award-winning documentary about the experience for our year-long “Do Your Share for Rare” campaign. “Do Your Share for Rare” was created to shed light on the need for more discussion on rare diseases and inspire individuals and communities to show their support.



OVER 87,000 VIEWS, 3 HEALTHCARE MARKETING AWARDS:

- Global Gold Award, Health Awareness & Advocacy (HWC): Activations/Events/Live Experiences
- Silver Winner, Clio Health, Disease Awareness
- Gold Video MM&M Awards

TAKING A GLOBAL APPROACH



In addition to representing patients in the United States, NORD also represents the U.S. patient community abroad.

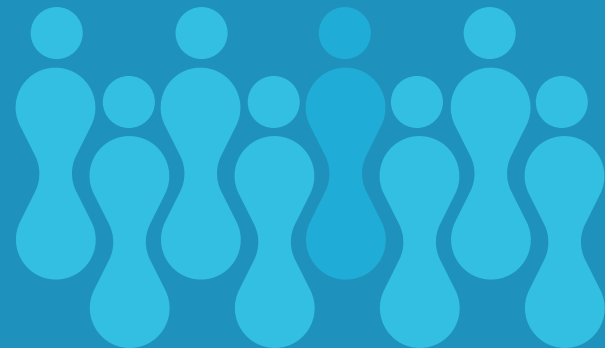
OUR WORLDWIDE PARTNERS



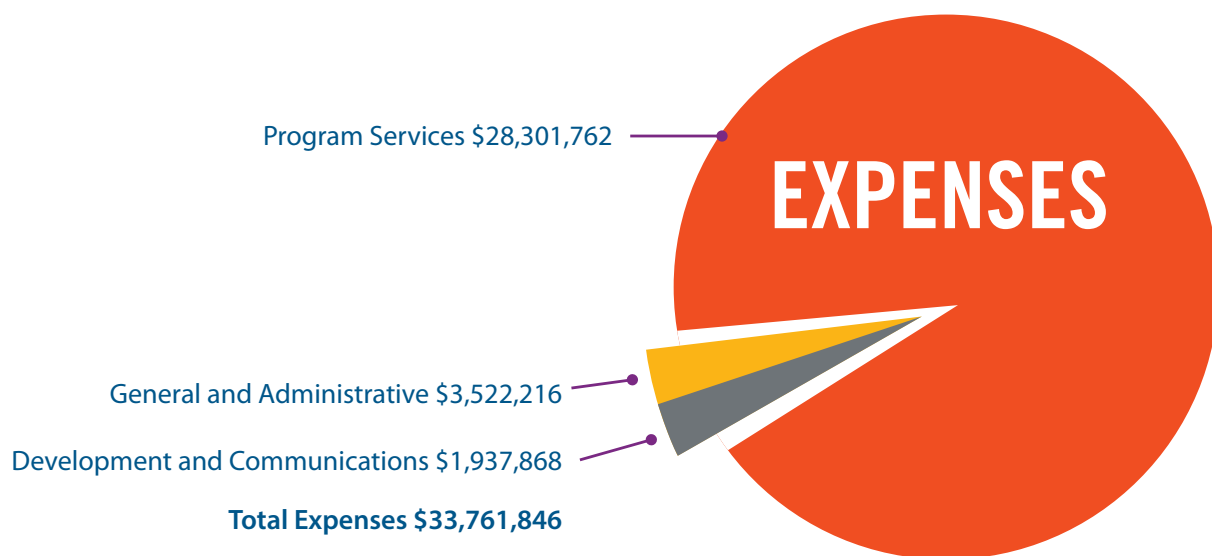
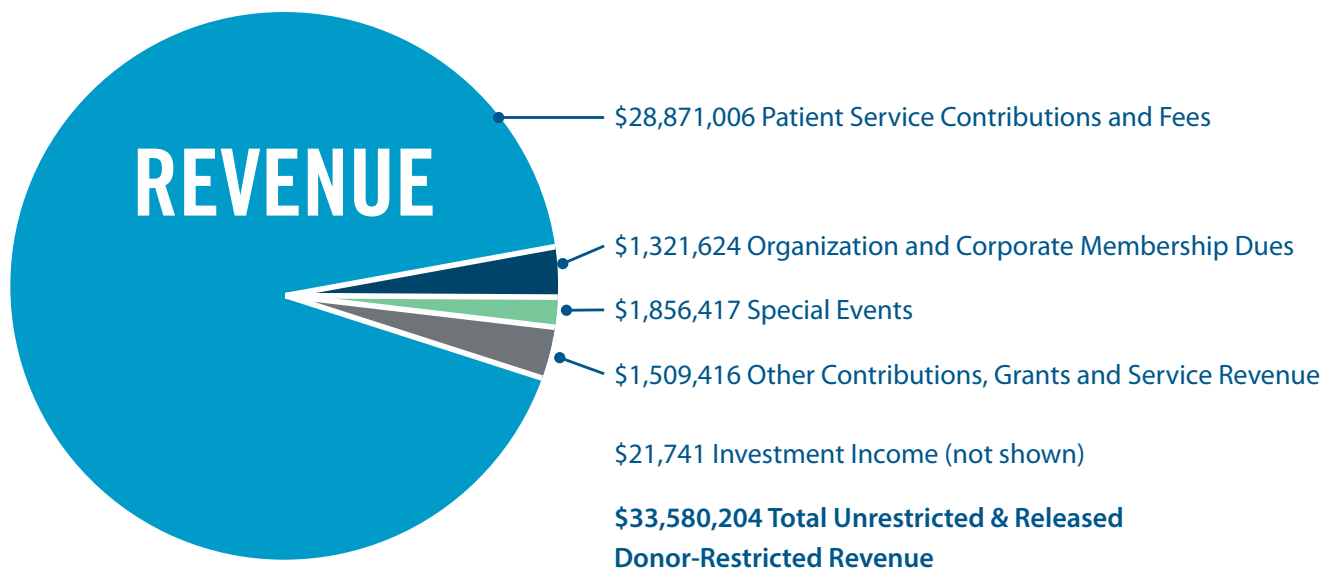
NORD'S INTERNATIONAL MEMBERS

- ✓ Canadian PBC Society
- ✓ Genetic Alliance Australia
- ✓ EURORDIS
- ✓ Canadian Organization for Rare Disorders (CORD)
- ✓ CMTc-OVM Netherlands
- ✓ Parent to Parent New Zealand, Inc.
- ✓ Taiwan Foundation for Rare Disorders
- ✓ HCU Network Australia Wilhelm Foundation
- ✓ Canadian CMTc Foundation
- ✓ Sanfilippo Children's Foundation
- ✓ iSEEK Pulmonary Hypertension Hope Center

2017 FINANCIALS



NORD®, a 501(c)(3) organization, is a patient advocacy organization dedicated to individuals with rare diseases and the organizations that serve them. NORD, along with its more than 271 patient organization members, is committed to the identification, treatment, and cure of rare disorders through programs of education, advocacy, research and patient services.



In 2017, there was a \$181,642 deficit to the changes in unrestricted net assets. However, there was a positive \$15.1 million change in total net assets.

★ THANK YOU! ★

BOARD OF DIRECTORS

Frederick E. Barr, M.D. MSc

Suzan B Thames Professor and Chair of Pediatrics Children's of Mississippi/
Batson Children's Hospital, University of Mississippi Medical Center

Ronald J. Bartek

President, Friedreich's Ataxia Research Alliance (FARA)

Preston White Campbell, III, M.D.

President for Medical Affairs, Cystic Fibrosis Foundation

Anthony Castaldo

President, United States Hereditary Angioedema Association (HAEA)

Patricia Furlong

President and CEO, Parent Project Muscular Dystrophy

Steven Grossman, Secretary

President, HPS Group, LLC

Jonathan L. Haines, Ph.D.

Director, Institute for Computational Biology;
Chair, Department of Epidemiology and Biostatistics;
Interim Chair, Department of Environmental Health and Sciences

Mary W. Sheldon, M.D.

Professor of Genomic Sciences

Sarah Krug

Executive Director, Cancer101 Inc.

Vicki McCarrell

President, Moebius Syndrome Foundation

Kevin McNaught, Ph.D.

Executive Vice President, Tourette Association of America

Charles A. Mohan, Jr.

CEO/Executive Director, The United Mitochondrial Disease Foundation

Sheldon M. Schuster, Ph.D., Vice Chairman

President, Keck Graduate Institute of Applied Life Sciences

Marshall L. Summar, M.D., Chairman of the Board

Chief, Genetics and Metabolism, Margaret O'Malley Chair of Molecular
Genetics, Children's National Medical Center;
Professor of Genetic Medicine and Professor of Pediatrics, George Washington
University

Roger P. Ziegler

Executive Director of Financial Planning and Decision Support, Children's
National Medical Center

NORD SCIENTIFIC & MEDICAL ADV. COMMITTEE MEMBERS

Frederick K. Askari, M.D., Ph.D.

Associate Professor, Hepatology Division
of Gastroenterology; Director, Wilson Disease
Program University of Michigan Health System

Matthias Baumgartner, Prof Dr. med.

Associate Professor for Metabolic Diseases
University of Zurich; Head, Division of Metabolics
Children's Hospital Zurich

Garrett E. Bergman, M.D., M.B.A.

Senior Director, Medical Affairs, Kedrion
Biopharma Inc.

Preston Campbell, III, M.D.

Executive Vice President for Medical Affairs,
Cystic Fibrosis Foundation; Associate Professor of
Pediatrics, Johns Hopkins Cystic Fibrosis Center

Robert M. Campbell, Jr., M.D.

Division of Orthopaedics Director,
Center for Thoracic Insufficiency, Syndrome
Children's Hospital of Philadelphia

Harry (Hal) Dietz, M.D.

Victor A. McKusick Professor of Genetics and
Medicine Investigator, Howard Hughes Medical
Institute; Johns Hopkins University School of
Medicine, McKusick-Nathans Institute of Genetic
Medicine

Gregory M. Enns, M.D.

Associate Professor of Pediatrics (Genetics)
and Lucile Packard Children's Hospital Associate
Professor-Med Center Line, Pediatrics-Medical
Genetics; Member, Child Health Research
Institute, Stanford University School of Medicine

Marlene Haffner, M.D., M.P.H.

President and CEO, Haffner Associates, LLC

James E. Heubi, M.D.

Director, Clinical Translational Research
Center Co-Director, Center for Clinical and
Translational Science and Training;
Associate Dean, Clinical and Translational
Research, Professor, Department of Pediatrics,
Cincinnati Children's Hospital Medical Center

James F. Leckman, M.D.

Neison Harris Professor of Child Psychiatry,
Psychiatry, Psychology and Pediatrics, Yale Child
Study Center, Yale School of Medicine

Brendan Lee, M.D., Ph.D.

Robert and Janice McNair Endowed Chair
in Molecular and Human Genetics, Professor
of Molecular and Human Genetics, Baylor
College of Medicine Investigator, Howard
Hughes Medical Institute

James Lock, M.D.

Cardiologist-in-Chief, Boston Children's Hospital;
Alexander S. Nadas Professor of Pediatrics,
Harvard Medical School

Mary Jean Sawey, Ph.D.

VP, Medical Director, Scientific Services TRIO,
an FCB Health Network Company

Marshall Summar, M.D. (SMAC Chairman)

Chief, Genetics and Metabolism, Margaret O'Malley
Chair of Molecular Genetics, Children's National
Medical Center; Professor of Genetic Medicine
and Professor of Pediatrics, George Washington
University

Susan Winter, M.D. (MAC Chairman)

Clinical Professor, Pediatrics, UCSF Medical
Director, Genetic Medicine and Metabolism,
Valley Children's Hospital

Doris T. Zallen, Ph.D.

Professor Emerita of Science and Technology
Studies and Humanities, Virginia Polytechnic
Institute and State University

CORPORATE COUNCIL MEMBERS

The following organizations participated in NORD's Corporate Council membership program.

ABB VIE
ACHILLION PHARMACEUTICALS
Actelion Pharmaceuticals US, Inc.
Aegerion
Agilis Biotherapeutics, Inc.
AgiOS
AGTC
Akcea
Alexion Pharmaceuticals, Inc.
Allergen
Alynlym Pharmaceuticals
Amgen
Amicus Therapeutics, Inc.
Asklepion Pharmaceuticals, LLC
Astellas
AUDENTES THERAPEUTICS INC
AveXis, Inc.
Biogen
BioMarin Pharmaceutical Inc.
Biotechnology Industry Organization
BLUEBIRD BIO
BLUEPRINT MEDICINES
Boehringer-Ingelheim Pharmaceuticals, Inc

BRISTOL-MYERS SQUIBB COMPANY
Catalyst Pharmaceuticals, Inc.
Celgene Corporation
CHEMISTRY RX
CHIASMA PHARMA
CHILDRENS NATIONAL HEALTH SYSTEM
Clementia
CSL BEHRING
CTD Holdings, Inc.
Cytokinetics, Inc.
DOHMEN LIFE SCIENCE SERVICE
Editas Medicine
EIGER BIOPHARMACEUTICALS
Genentech, Inc
Genzyme Corporation
GlaxoSmithKline
Global Blood Therapeutics, Inc.
GlycoMimetics, Inc.
GRUNENTHAL USA INC
HANSA MEDICAL
HORIZON PHARMA
Incyte Corporation
INSMED INC.

INTELLIA THERAPEUTICS
INVITAE
IPSEN BIOPHARMACEUTICALS, INC.
Jazz Pharmaceuticals
Johnson & Johnson
Lundbeck, Inc.
LYSOGENE
MALLINCKRODT PHARMACEUTICALS
Marathon Pharmaceuticals, LLC
MEIRAGTX
MITSUBISHI TANNABE
Moderna Therapeutics
MULTICARE PHARMACEUTICALS
Orchard Therapeutics
Otsuka America Pharmaceuticals, Inc
OVID THERAPEUTICS
Pfizer, Inc.
PHARMACEUTICAL RESEARCH AND MANUFACTURING OF AMERICA
Prevention Genetics
PROMETIC LIFE SCIENCES
Recordati Rare Diseases
Regeneron Pharmaceuticals

REGENX BIO
RETROPHIN, INC
Rhythm Pharmaceuticals
RIGEL PHARMACEUTICALS
Rocket Pharmaceuticals
SAREPTA THERAPEUTICS
Shire Human Genetic Therapies
SOBI, INC
Soligenix, Inc.
SPARK THERAPEUTICS
STEALTH BioTherapeutics Inc
STRONGBRIDGE BIOPHARMA
SUCAMPO
SYROS PHARMACEUTICALS
Teva Pharmaceuticals
THETIS PHARMACEUTICALS LLC
Vertex Pharmaceuticals Inc.
VITAL THERAPIES, INC
WALGREENS CO
ZAFGEN, INC
Zealand Pharma
ZOGENIX, INC.

NORD ORGANIZATION MEMBERS

A Cure in Sight
A Twist of Fate-ATS
Acid Maltase Deficiency Association (AMDA)
Acoustic Neuroma Association
ACPMP (Appendix Cancer / Pseudomyxoma Peritonei Research Foundation)
Acromegaly Community, Inc.
Adrenal Insufficiency United
Alagille Syndrome Alliance
Alpha-1 Foundation
Alport Syndrome Foundation
Alternating Hemiplegia of Childhood Foundation (AHCF)
American Autoimmune & Related Diseases
American Behcet's Disease Association
American Brain Tumor Association
American Cleft Palate-Craniofacial Association/ Cleft Palate Foundation (For Patients/families) ACPFA is for medical professionals.
American Multiple Endocrine Neoplasia Support
American Partnership for Eosinophilic Disorders (APFED)
American Porphyria Foundation
American Syringomyelia & Chiari Alliance Project, Inc
Amyloidosis Research Consortium, Inc.
Amyloidosis Support Groups, Inc.

APBD Research Foundation
Aplastic Anemia & MDS International Foundation, Inc (AAMDS)
APS Type 1 Foundation
Association for Creatine Deficiencies
Association for Frontotemporal Degeneration (AFTD)
Association for Glycogen Storage Disease
Association of Gastrointestinal Motility Disorders, Inc (AGMD)
Ataxia Telangiectasia Children's Project, Inc (A-T)
Autoimmune Hepatitis Association
Autoinflammatory Alliance (formerly NOMID Alliance)
Basal Cell Carcinoma Nevus Syndrome Life Support Network
Batten Disease Support & Research Association
Benign Essential Blepharospasm Research Foundation, Inc
Bohring-Opitz Syndrome Foundation, Inc.
BORN A HERO, Pfeiffer's Health and Social Issues Awareness
Bridge the Gap-SYNGAP Education & Research Foundation
Calliope Joy Foundation
Cardio Facio Cutaneous International (CFC)
Castleman's Awareness & Research Effort (CARE)

CCHS Network
Charcot-Marie Tooth Association
Charlotte & Gwenyth Gray Foundation to Cure Batten Disease at The Giving Back Fund
Children's Cardiomyopathy Foundation
Children's Craniofacial Association
Children's PKU Network
Children's Tumor Foundation, Inc
Chloe's Fight Rare Disease Foundation
Cholangiocarcinoma Foundation
Chordoma Foundation
Chromosome 18 Registry & Research Society
Chromosome Disorder Outreach, Inc
Chronic Granulomatous Disease Association, Inc.
Cicatrical Alopecia Research Foundation (CARF)
Cloves Syndrome Community
Cluster Headache Support Group, Inc.
Clusterbusters, Inc.
CMTc-OVM - US
Congenital Hyperinsulinism International
Consortium of Multiple Sclerosis Centers
Cornelila de Lange Syndrome Foundation, Inc.
Council for Bile Acid Deficiency Diseases
CURE HHT Foundation
Cure SMA

CureCADASIL/CADASIL Association, Inc.
CurePSP
Curing Retinal Blindness Foundation
Cushing Support & Research Foundation, Inc.
Cutaneous Lymphoma Foundation
Cystinosis Foundation, Inc.
Cystinosis Research Network, Inc.
Daybreak Children's Rare Disease Fund
Desmoid Tumor Research Foundation
Dravet Syndrome Foundation
Dup15q Alliance
Dysautonomia Foundation Inc.
Dyskeratosis Congenita Outreach, Inc. (DCO)
ECD Global Alliance
Erythromelalgia Association
Evans Syndrome Foundation
Family Caregiver Alliance
Family Support Network of North Carolina
Fat Disorders Research Society, Inc.
Fibrolamellar Cancer Fdn
Fibromuscular Dysplasia Society of America
Fibrous Dysplasia Foundation
Foundation Fighting Blindness
Foundation for Ichthyosis & Related Skin Types, Inc.
Foundation for Prader-Willi Syndrome
FPIES Foundation

NORD ORGANIZATION MEMBERS (CONTINUED)

<i>Friedreich's Ataxia Research Alliance (FARA)</i>	<i>Liam's Land Organization, Inc.</i>	<i>National PKU News</i>	<i>Rothmund-Thomson Syndrome Foundation</i>
<i>Galactosemia Foundation</i>	<i>Life Raft Group</i>	<i>National Spasmodic Dysphonia Association</i>	<i>RYR-1 Foundation</i>
<i>GBS/CIDP Foundation International</i>	<i>Lipoprotein a Foundation</i>	<i>National Tay-Sachs & Allied Diseases Association</i>	<i>Sarcoma Foundation of America</i>
<i>Genetic Alliance</i>	<i>Lowe Syndrome Association, Inc.</i>	<i>National Urea Cycle Disorders Foundation</i>	<i>SBS Cure Project</i>
<i>Global Foundation for Peroxisomal Disorders</i>	<i>Lymphangiomas & Gorham's Disease Alliance, Inc. (LGDA)</i>	<i>NBIA Disorders Association</i>	<i>Scleroderma Foundation</i>
<i>Glut1 Deficiency Foundation</i>	<i>Marfan Foundation</i>	<i>NephCure Kidney International</i>	<i>Scleroderma Research Foundation</i>
<i>Gut Check Foundation</i>	<i>Martin Mueller IV Achalasia Awareness Foundation, Inc.</i>	<i>Neuroendocrine Tumor Research Foundation (formerly Caring for Carcinoid Foundation)</i>	<i>Short Bowel Syndrome Foundation</i>
<i>Guthy Jackson Charitable Foundation</i>	<i>Mastocytosis Society, Inc.</i>	<i>Neurofibromatosis Network</i>	<i>Shwachman-Diamond Syndrome Foundation</i>
<i>Hemophilia Federation of America</i>	<i>M-CM Network</i>	<i>NGLY1 Foundation</i>	<i>Sitosterolemia Foundation</i>
<i>Hereditary Leiomyomatosis & Renal Cell Cancer Family Alliance (HLRCCFA)</i>	<i>MEBO Research, Inc.</i>	<i>NICER Foundation</i>	<i>Snyder-Robinson Foundation, Inc.</i>
<i>Hereditary Neuropathy Foundation</i>	<i>Melorheostosis Association</i>	<i>NTM Info & Research, Inc</i>	<i>Sofia Sees Hope</i>
<i>Hermansky-Pudlak Syndrome Network, Inc.</i>	<i>Mesothelioma Applied Research Foundation</i>	<i>Ocular Melanoma Foundation</i>	<i>Soft Bones, Inc.</i>
<i>Histiocytosis Association, Inc.</i>	<i>MitoAction</i>	<i>Oley Foundation</i>	<i>Sotos Syndrome Support Association</i>
<i>Hope for Hypothalamic Hamartomas</i>	<i>MLD Foundation</i>	<i>OMSLife Foundation</i>	<i>Spastic Paraplegia Foundation</i>
<i>Huntington's Disease Society of America</i>	<i>Moebius Syndrome Foundation</i>	<i>Organic Acidemia Association</i>	<i>Spinal CSF Leak Foundation</i>
<i>Hydrocephalus Association</i>	<i>Morgan Leary Vaughan Fund, Inc.</i>	<i>Osteogenesis Imperfecta Foundation</i>	<i>SSADH Association (Succinic Semialdehyde Dehydrogenase Deficiency)</i>
<i>Immune Deficiency Foundation</i>	<i>Mowat-Wilson Syndrome Foundation</i>	<i>Pachyonychia Congentia Project</i>	<i>Stevens Johnson Syndrome Foundation</i>
<i>Incontinentia Pigmenti International Foundation</i>	<i>MPN Research Foundation</i>	<i>Pancreatic Cancer Action Network</i>	<i>Sturge-Weber Foundation</i>
<i>Indian Organization for Rare Diseases</i>	<i>MSUD Family Support</i>	<i>Parent Project Muscular Dystrophy</i>	<i>Target Cancer Foundation</i>
<i>International FOP Association, Inc. (Fibrodysplasia Ossification Progressive)</i>	<i>Mucopolidosis Type IV Foundation, Inc.</i>	<i>Parkinson's Disease Foundation, Inc.</i>	<i>Tarlov Cyst Disease Foundation</i>
<i>International Foundation for CDKL5 Research</i>	<i>Multiple System Atrophy Coalition, Inc. (MSA Coalition)</i>	<i>Phelan-McDermid Syndrome Foundation</i>	<i>Tess Research Foundation</i>
<i>International FPIES Association (International Association for Food Protein Enterocolitis)</i>	<i>Myasthenia Gravis Foundation of America, Inc.</i>	<i>Pitt Hopkins Research Foundation</i>	<i>TNA - The Facial Pain Association</i>
<i>International Myeloma Foundation</i>	<i>Myelin Project</i>	<i>Pituitary Network Association (PNA)</i>	<i>Tourette Association of America</i>
<i>International Pemphigus & Pemphigoid Foundation (IPPF)</i>	<i>Myelodysplastic Syndromes Foundation, Inc. (MDS Foundation)</i>	<i>PKD Foundation</i>	<i>Transverse Myelitis Association</i>
<i>International Rett Syndrome Foundation (Cure Rett)</i>	<i>Myocarditis Foundation</i>	<i>Platelet Disorder Support Association</i>	<i>Tuberous Sclerosis Alliance (National Tuberous)</i>
<i>International WAGR Syndrome Association</i>	<i>Myositis Association</i>	<i>Prader-Willi Syndrome Association, USA</i>	<i>Turner Syndrome Society of the United States</i>
<i>International Waldenstrom's Macroglobulinemia Foundation</i>	<i>Myotonic Dystrophy Foundation</i>	<i>Primary Ciliary Dyskinesia Foundation - PCD Foundation</i>	<i>United Leukodystrophy</i>
<i>Intractable Childhood Epilepsy Alliance-ICE Epilepsy Alliance</i>	<i>Narcolepsy Network, Inc.</i>	<i>PRISMS (Parents & Researchers Interested in Smith-Magenis Syndrome)</i>	<i>United Mitochondrial Disease Foundation</i>
<i>ISMRD</i>	<i>National Adrenal Diseases Foundation</i>	<i>PRP Alliance, Inc.</i>	<i>US Hereditary Angioedema Association</i>
<i>Jack McGovern Coats Disease</i>	<i>National Alopecia Areata Foundation</i>	<i>PSC Partners Seeking A Cure (Primary Sclerosing Cholangitis)</i>	<i>Vasculitis Foundation</i>
<i>Joshua Frase Foundation for Congenital Myopathy Research</i>	<i>National Ataxia Foundation</i>	<i>Pulmonary Fibrosis Foundation</i>	<i>Vestibular Disorders Association (VEDA)</i>
<i>Julia's Wings Foundation, Inc.</i>	<i>National Brain Tumor Society</i>	<i>Pulmonary Hypertension Association</i>	<i>VHL Alliance</i>
<i>Kennedy's Disease Association, Inc.</i>	<i>National Eosinophilia Myalgia Syndrome Network</i>	<i>PURA Syndrome Foundation</i>	<i>Williams Syndrome Association</i>
<i>Klippel Trenaunay (KT) Support Group</i>	<i>National Foundation for Ectodermal Dysplasias</i>	<i>Rare & Undiagnosed Network</i>	<i>Wilson Disease Association</i>
<i>LAL Solace, Inc.</i>	<i>National Health Council (NHC)</i>	<i>Rare Cancer Research Foundation</i>	<i>Worldwide Syringomyelia & Chiari Task Force Inc.</i>
<i>LAM Foundation</i>	<i>National Lymphedema Network, Inc.</i>	<i>RASopathies Network USA</i>	<i>XLH Network, Inc.</i>
	<i>National MPS Society</i>	<i>Recurrent Respiratory Papillomatosis Foundation</i>	<i>Xtraordinary Joy</i>
	<i>National Nieman-Pick Disease Foundation, Inc. (NNPDF)</i>	<i>Reflex Sympathetic Dystrophy Syndrome Association (RSDSA)</i>	
	<i>National Organization for Albinism & Hypopigmentation (NOAH)</i>	<i>Rett Syndrome Research Trust</i>	
	<i>National PKU Alliance</i>		



Connecticut office: 55 Kenosia Avenue, Danbury, CT 06810 | 203-744-0100

Washington, D.C. office: 1779 Massachusetts Avenue, NW, Washington, D.C. 20036 | 202-588-5700

Massachusetts office: 1900 Crown Colony Drive, Quincy, MA 02169 | 617-249-7300

RAREDISEASES.ORG

©2017 The National Organization for Rare Disorders. NORD, 'Alone we are rare...' tagline, RareAction Network, Breakthrough Summit, IAMRARE, and Running for Rare are registered trademarks of the National Organization for Rare Disorders. NRD-1149