SCIENCE MATTERS AND RESEARCH SAVES LIVES.
We’ve experienced these truths through COVID-19,
and we’ll continue to pursue them within the epilepsy
community until there is a cure.

Even as we continue to battle this pandemic, I am grateful to see science at
work, research that continues to make a difference, and vaccine discoveries
to potentially end a global health crisis.

I have seen this same dedication in our epilepsy research community.
Our incredible team of researchers continue to persevere through a
pandemic, understanding that theirs is a mission that must not be stopped.

At CURE Epilepsy, we match this determination by remaining steadfast in
our support of finding a cure. Recognizing that we are a critical source of
funding for our community, we have continued fundraising and awarding
grants to accelerate epilepsy research. And when other funding sources
were cut because of COVID-19, we created our new Continuity Fund to fill
financial gaps for epilepsy researchers.

As you explore this report, I hope you’ll celebrate our community's progress
in a pandemic. For many of us, life has felt on hold as we distance, quarantine,
and limit our exposure, but we've proven that epilepsy research is a priority.
We work every day for our loved ones who can’t escape this devastating
disease, giving them hope with each new discovery, clinical trial, and treatment.

To further increase the reach of our research, we are proud to announce a
new strategic partner in the fight to end epilepsy. Founded in 1966, Epilepsy
Canada shares in our commitment to advance epilepsy research to find a
cure. By partnering together, we will have more opportunities to identify
and fund cutting-edge research from around the world. We will also create
efficiencies and strategically target our financial resources for greater impact.

In a challenging year, you showed us unwavering support, allowing us to
continue leading critical research for the epilepsy community. Please know
that the new discoveries, partnerships, grants, and opportunities we celebrate
in this issue are possible because of you. Because we can count on you,
our community can count on us to find a cure.

With continued gratitude,

Beth Lewin Dean
Chief Executive Officer, CURE Epilepsy
Our spring issue highlights our many donors, volunteers, and researchers who give generously and work tirelessly because they believe in a cure. One of these leaders is Stacey Pigott, 2020-2021 Chair of CURE Epilepsy’s Board of Directors.

Stacey Pigott
Chair, CURE Epilepsy Board of Directors

Stacey is a committed CURE Epilepsy volunteer, having served in various roles for more than 10 years with the organization. She is currently Chair of the CURE Epilepsy Board of Directors. In addition to her leadership positions, Stacey co-founded “Rock the Block for Pediatric Epilepsy Research” with former CURE Epilepsy board member Kathy Dodd and has successfully hosted personal fundraisers to help sponsor five CURE Epilepsy Pediatric Awards for research.

Stacey and her husband John are inspired by their son Evan who was diagnosed with electrical status epilepticus in sleep (ESES) when he was 4 years old. As Evan matured he outgrew his epilepsy and now lives seizure-free. Even though Evan no longer experiences seizures, his family - including brother Henry and sister Ava - remains committed to finding a cure. Stacey’s commitment to finding a cure has only grown stronger and more urgent as her father has recently been diagnosed with temporal lobe epilepsy, one of many older adults newly diagnosed with epilepsy in the U.S. each year.
Often called little seizures with big consequences, infantile spasms (IS) are subtle seizures that occur in a baby’s first year of life – a time when brain development is most critical. The neurological effects of IS can be severe, often causing cognitive and developmental delays.

Because these spasms do not look like traditional seizures, primary care physicians and pediatricians can find it challenging to diagnose IS. This often means that effective treatment for affected children is delayed, which can have dire consequences. And for those that are diagnosed accurately, many do not respond to treatment or have adverse side effects.

NEW APPROACH, NEW BREAKTHROUGHS
INITIATIVE ACCELERATES INFANTILE SPASMS RESEARCH

UNDERSTANDING INFANTILE SPASMS

AFFECTS 1 IN 2,000 CHILDREN

DISCOVERED NEARLY 200 YEARS AGO
BY DR. WILLIAM JAMES WEST

TYPICALLY BEGINS BETWEEN 2 TO 12 MONTHS OLD AND PEAKS AROUND 4 TO 8 MONTHS OLD

ALSO KNOWN AS WEST SYNDROME

NOT WELL-UNDERSTOOD AND TREATMENT IS OFTEN INEFFECTIVE

SEIZURES ARE SUBTLE, OFTEN RESEMBLING A JERK, REFLEX, OR HEAD BOB

K NOW THE SIGNS
View this video to understand what signs to look for in a baby experiencing infantile spasms.
CUREepilepsy.org/infantile-spasms-video

1 Riikonen R. Epidemiological data of West syndrome in Finland. Brain Dev. 2001; 23: 539– 541.
INFANTILE SPASMS: A MEDICAL EMERGENCY

- Early diagnosis and treatment is critical.
- Many primary care doctors and parents are not familiar with IS signs and symptoms.
- Current standard treatment is a hormone (ACTH, prednisone) or anti-seizure medication (vigabatrin).
- Not all children with IS will respond to treatment. There is no reliable way of predicting who will respond favorably.

TEAMING UP FOR INFANTILE SPASMS RESEARCH

With $4 million in funding, CURE Epilepsy launched the Infantile Spasms Initiative in 2013 as the first team science approach in the epilepsy research community. The initiative brought together eight researchers from different institutions to work as a team and study the pathology of infantile spasms.

WHAT IS TEAM SCIENCE?

Team science is a research approach that involves a multidisciplinary, multi-scientist team working together to accelerate the research process.

Operating in different labs, these scientists share data, preliminary research findings, and learnings in real time.

Scientists are encouraged to collaborate, rather than isolate.

Key benefits include the rapid dissemination of results among teams, cross-fertilization of ideas between basic research scientists and clinicians, and mentoring of junior researchers.

Confronting IS was a daunting assignment. The mechanisms of the disorder are not understood, and research to find an effective treatment has been slow. That’s where the IS Initiative filled a significant research gap. Collectively, the IS research team studied the basic biology of IS, searched for biomarkers and drug targets, and tested potential treatments.
One of the CURE Epilepsy IS Initiative’s research groups, led by Dr. John Swann at the Baylor College of Medicine, focused its efforts on discovering novel drug targets and better treatment strategies to stop the spasms and the associated developmental delays.

The team identified that treatment with (1-3) IGF-1, a derivative of the growth hormone insulin-like growth factor 1 (IGF-1), reduced the spasms and irregular brain wave pattern in an animal model. Adding this compound to vigabatrin, an FDA-approved IS treatment, reduced the dose of vigabatrin required to eliminate the spasms. Diminishing the dosage also decreased the risk of serious side effects, including the potential for irreversible peripheral vision loss.

The Swann lab patented this combination treatment and used the discovery to obtain two National Institutes of Health (NIH) grants. One of these grants, totaling approximately $350,000 over five years, will investigate the molecular basis for the combination therapy. Through the second grant, the team will work to establish a specific IS rodent model for identifying more effective, less toxic therapies.

Through work partially funded by CURE Epilepsy’s IS Initiative, Dr. Swann’s team also identified the specific cell type and its location (the frontal lobe of the brain) where severe epileptic spasms often begin, revealing that brain activity immediately before epileptic spasms closely resembles a phase of the sleep cycle. These discoveries highlight potential avenues to prevent these spasms from occurring in future patients.

**KEY IMPACTS FROM THE INFANTILE SPASMS INITIATIVE:**

- **DISCOVERED A POTENTIAL TREATMENT AND ACQUIRED A PATENT**
  - to reduce spasms and decrease side effects

- **IDENTIFIED THE CELL TYPE**
  - and location where severe spasms start

- **REVEALED THAT BRAIN ACTIVITY**
  - prior to spasms resembles a sleep cycle phase

- **PUBLISHED 19 PAPERS**
  - as a team to share new knowledge with other researchers in the field

- **SECURED 3 NIH GRANTS**
  - as a team, with more than $4.4 million in total expected funding
SHAPING THE FUTURE OF RESEARCH ACROSS THE EPILEPSIES

Today, CURE Epilepsy’s IS Initiative continues to impact the larger epilepsy community. The IS Initiative marked the beginning of CURE Epilepsy’s team science approach – a groundbreaking method that we now use to accelerate research in other focus areas.

In fact, this approach was key to receiving a $10 million grant from the Department of Defense to launch the CURE Epilepsy Post-Traumatic Epilepsy (PTE) Initiative. With this funding and through a team science approach, we will improve methods of studying PTE, develop biomarkers, and understand predictive risk factors. This research will lay the groundwork for the creation of novel therapies to prevent the development of PTE.

CURE Epilepsy is researching for Hadley

Hadley was a miracle baby from the start. Born three months before her due date, she spent 91 days in the newborn intensive care unit fighting to go home to her loving family.

At 5 months old, Hadley began another fight. After feeding Hadley a bottle, her mom Erin watched as she repeatedly rolled her eyes back, threw her hands in the air, and cried. Suspecting a seizure, Erin filmed the episode and showed it to her pediatrician who immediately referred her to Nationwide Children’s Hospital’s emergency department where Hadley was diagnosed with IS during an EEG.

Every time Hadley has a spasm, she experiences brain damage, critically affecting her development. Now almost 3 years old, she cannot stand independently, walk, or talk.

In 2020, Hadley had brain surgery. While the surgery did not cure Hadley of epilepsy, it did give back her smile, laugh, and skills she had lost. It also gave her family hope that she can work toward bigger developmental goals.

“I don’t know why this happened to Hadley and to our family. And, I don’t know when this will end, if ever, but I do know we have to keep fighting for Hadley and for her future.”

Erin, Hadley’s mom

“CURE Epilepsy is a beacon in the epilepsy research community. [They] are very innovative in that they rely on scientists and patients to decide where they invest their money. And that agility and ability to adapt to the biggest, most exciting opportunity is what really makes them different.”

Chris Dulla, PhD, Associate Professor of Neuroscience at Tufts University and a researcher for the IS Initiative
RESEARCH ADVANCES DISCOVERY. DISCOVERIES CREATE BREAKTHROUGHS. BREAKTHROUGHS LEAD TO A CURE.

Announcing Our New CURE Epilepsy Research Grantees

True to our mission to end epilepsy, we are the only U.S. nonprofit laser-focused on funding research to find a cure for epilepsy. Even during uncertain times, we are a constant support for the epilepsy research community. Learn more about the research funded by CURE Epilepsy and the hope it offers to those who need it most.

MECHANISMS OF EPILEPSY

MARK BENNETT, PHD
THE WALTER AND ELIZA HALL INSTITUTE OF MEDICAL RESEARCH, AUSTRALIA
TAKING FLIGHT AWARD

REALITY
Genetic factors can impact a person’s risk of developing epilepsy.

DISCOVERY
“Repeat expansions” are genetic changes that occur when repeated segments of DNA are copied many times, in error, within the DNA sequence. Research has linked these expansions to neurological disorders, including epilepsy.

OPPORTUNITY
Dr. Bennett will analyze data from one of the largest genetic studies of epilepsy and aim to discover repeat expansions linked with epilepsy. This research will provide new insights into the genetic causes of epilepsy, which he hopes will lead to better treatment options.

CURE EPILEPSY GRANTS

TAKING FLIGHT AWARD
Promotes the careers of young epilepsy researchers, allowing them to develop a research focus independent of their mentor; grant is up to $100,000 for 1 year

CURE EPILEPSY AWARD
Provides up to $250,000 over 2 years for researchers focused on the basic mechanisms of epilepsy, acquired epilepsies, pediatric epilepsies, SUDEP, treatment-resistant epilepsies and sleep and epilepsy

CATALYST AWARD
Accelerates research by helping transition basic research findings to curative therapies; awards up to $250,000 over 2 years
REALITY
Researchers can develop and utilize human brain organoids - 3D brain-like structures made from human cells - to enhance our understanding and treatment of epilepsy.

DISCOVERY
Dr. Samarasinghe previously made brain organoids from the cells of patients with severe epilepsy because of a mutation in the SCN8A gene. He developed these organoids to model different regions of the human brain and observed unique patterns of neuronal activity.

OPPORTUNITY
Building off of his previous research, Dr. Samarasinghe will work to uncover the cellular changes that account for these differences in neuronal activity and will use the organoids as a model to test anti-seizure medications.

CURE EPILEPSY IS RESEARCHING FOR
Esmé

From birth, Esmé’s parents knew her life would not be typical. Born limp and not breathing well, she experienced cardiac and respiratory arrest at just 3 months old.

By 8 months old, she had what her family suspects was her first seizure. With “normal” EEG tests, many doctors dismissed an epilepsy diagnosis, until one physician discovered that her seizures were so deep in her brain that even EEGs could not detect them. Her diagnosis now includes gene mutations PCDH19, SCN8A (referenced in Dr. Samarasinghe’s research overview above), TBL1XR1, and MAP3K7.

Almost one and a half years after Esmé’s first seizure she was diagnosed with PCDH19, a rare epilepsy syndrome. Esmé is a medical mystery, complicated by the likelihood of additional syndromes, but she is also cheerful, determined, and a joy to her family.

“I never stop thinking about the many things that could steal her from me — a seizure, a respiratory illness, a drug reaction, a medical mistake. Esmé cannot outrun these risks, even if I carry her.”

HILLARY SAVOIE, ESMÉ’S MOM
MECHANISMS OF EPILEPSY

Cristina Reschke, PhD
RCSI University of Medicine and Health Sciences
Cure Epilepsy’s Cameron Boyce Taking Flight Award

REALITY
The body, including its development and everyday functions, often follows 24-hour cycles called circadian rhythms. Currently, it is unknown if genetic mechanisms that control the body’s natural rhythms affect how the brain develops epilepsy.

DISCOVERY
There is increasing evidence that seizures in some people occur in predictable patterns potentially related to circadian rhythms.

Opportunity
In this project generously funded by The Cameron Boyce Foundation, Dr. Reschke will study how disruption of circadian rhythms could affect gene expression during epileptogenesis. She will also develop a gene therapy approach to restore proper function of a central gene involved in regulating circadian rhythms. Finally, Dr. Reschke will explore whether “adjusting the clocks” represents a potential approach for disease modification by testing the gene therapy in mice with drug-resistant epilepsy. Together, these findings will explore an important potential mechanism influencing epilepsy development.

Suddenly Unexpected Death in Epilepsy (SUDEP)

Christina Gross, PhD
Cincinnati Children’s Hospital
Cure Epilepsy Award

REALITY
SUDEP affects 1 in 1,000 people with epilepsy each year, but the causes are not fully understood.

DISCOVERY
Leading SUDEP research points to breathing abnormalities as a potential cause of death.

Opportunity
Dr. Gross and Dr. Crone will use mouse models to test if alterations in a specific genetic pathway in cells, called the PI3K/mTOR pathway, lead to breathing abnormalities and ultimately SUDEP. They will also test whether blocking this pathway with a specific inhibitor reduces SUDEP risk factors. The PI3K/mTOR pathway is often altered in epilepsy, so studying this in relation to SUDEP could be the first step toward a novel treatment.
REALITY
There is increasing evidence that respiratory arrest is the primary cause of death for many cases of SUDEP.

DISCOVERY
In a novel mouse model of SUDEP, Dr. Wenker found that death due to respiratory arrest often occurs during the tonic phase of seizures.

OPPORTUNITY
Dr. Wenker hypothesizes that breathing recovery is possible once tonic activity subsides. During his study, he will activate specific neuronal populations of the brainstem to recover breathing. This research will provide insight into how the brain’s control of breathing is altered during seizures, in the hope of identifying therapeutic targets for SUDEP.

NURIA LACUEY-LECUMBERRI, MD, PHD
MCGOVERN MEDICAL SCHOOL, THE UNIVERSITY OF TEXAS HEALTH SCIENCE CENTER AT HOUSTON
CURE EPILEPSY AWARD

REALITY
There are currently no technologies or devices available for directly preventing death in patients at high risk for SUDEP.

DISCOVERY
SUDEP usually occurs in patients with frequent convulsive seizures because of seizure-induced breathing failure.

OPPORTUNITY
The goal of Dr. Lacuey-Lecumberri’s project is to improve the overall understanding of breathing control by identifying those brain areas most important for breathing function. After identifying these areas, Dr. Lacuey-Lecumberri will work to develop neurostimulation techniques that can be used to prevent seizure-induced breathing failure. She hopes to pave the way for the creation of deep brain stimulation devices for breathing rescue as a targeted SUDEP prevention strategy.

IAN WENKER, PHD
UNIVERSITY OF VIRGINIA
TAking FLIGHT AWARD

REALITY
There is increasing evidence that respiratory arrest is the primary cause of death for many cases of SUDEP.

DISCOVERY
In a novel mouse model of SUDEP, Dr. Wenker found that death due to respiratory arrest often occurs during the tonic phase of seizures.
Temporal Lobe Epilepsy (TLE) is a common form of epilepsy, with approximately 35% of patients having recurrent seizures despite treatment.

Dr. McNamara and other researchers previously discovered that proteins in the brain called BDNF and TrkB play an important role in the development of TLE in animal models. Dr. McNamara’s team also found that BDNF/TrkB can cause epileptogenesis (the process of developing epilepsy in the brain) through activation of another protein called PLCgamma1. This led to their discovery of a novel peptide, pY816, which blocks the activation of PLCgamma1 and prevents epileptogenesis in animal models.

The goal of Dr. McNamara’s translational research project is to conduct key studies to advance pY816 to human clinical trials, ultimately developing a novel therapy for drug-resistant TLE. Specifically, the team will determine how to reliably detect pY816 in the blood of treated animals and the best dose which causes minimal toxicity in the animals.

Alexander’s fiancée was the first to notice his seizures. A Class A truck driver, he came home one day unaware of his surroundings and not making sense. His doctor assumed exhaustion and prescribed time off of work.

Alexander went back to work, only to have his symptoms reoccur. After a 48-hour EEG, he was diagnosed with epilepsy at 26 years old – one day before his wedding.

With his wife’s support, he was determined to regain his health. He made major lifestyle changes, including adopting the ketogenic diet, regular exercise, and healthy sleep habits.

Although he still struggles with epilepsy, his seizures are less frequent and smaller. He did have a major seizure the day of his daughter’s birth, but he continues to diligently manage his health for both himself and his family.

“I have not given up hope that they will find a cure for epilepsy. I want you to know that because you have epilepsy, your life is not over. You can have a normal life, and you are not alone in this.”

Alexander
REALITY
For patients with acquired epilepsy, it’s still unpredictable as to who will benefit from early medication and which treatments are most effective.

DISCOVERY
Acute brain injury from trauma, stroke, or a lack of brain oxygenation are among the most common causes of acquired epilepsy in adults and children worldwide.

OPPORTUNITY
Dr. Amorim’s research uses non-invasive brain monitoring with EEG to predict, prevent, and treat seizures in critically ill patients. He is designing algorithms that can determine seizure risk after acute brain injury, as well as measure the individual’s response to antiepileptic drugs. Dr. Amorim hopes that this data-driven approach to seizure physiology will lead the way to personalized treatments to prevent epilepsy development after acute brain injury.

CURE EPILEPSY IS RESEARCHING FOR

Stephen

Stephen had his first seizure when he was 2 years old, a result of brain inflammation from a case of German measles. His diagnosis was absence epilepsy, which contributed to challenges at school. After seeing a neurologist, Stephen improved with treatment, becoming a straight-A student.

However, in his teen years, Stephen suffered a traumatic brain injury and started having tonic-clonic seizures. After many falls, injuries, and hospital stays, he finally gained seizure control.

With his health more stabilized, he studied the culinary arts and hospitality in college, while also serving as the president of the Students with Disabilities Club.

Stephen now uses his baking skills to raise donations and awareness for the epilepsy community. He created the Stephen Piorkowski Scholarship for Epilepsy to give college financial assistance to those affected by epilepsy.
RESPONDING TO RESEARCH NEEDS

CURE EPILEPSY CREATES CONTINUITY FUND FOR RESEARCH IMPACTED BY THE PANDEMIC

1. **Adam Numis, MD**
   **University of California San Francisco**
   Evaluating the Role of Inflammation in Neonatal Epileptogenesis

2. **Lakshmi Subramanian, PhD**
   **University of California San Francisco**
   Transcriptomic Diversity of Cell Types in Cortical Malformations

3. **Heidi Grabenstatter, PhD**
   **University of Colorado Boulder**
   Abnormal Myelin in Absence Epilepsy: Cause and Functional Impact

4. **Braxton Norwood, PhD**
   **Expesicor Neuroscience Research**
   Modeling Drug-Refractory Epilepsy with the KoL Method

5. **Juliet Knowles, MD, PhD**
   **Stanford University**
   AMPK and Cardiac Dysfunction in Chronic Epilepsy: A Prognostic Indicator of SUDEP Risk

6. **Bruce Hermann, PhD**
   **University of Wisconsin-Madison**
   Brain Aging in Persons with Childhood Onset Epilepsy: A Population Based Investigation II
FAMILY’S GENEROSITY PROTECTS THE PROGRESS OF EPILEPSY RESEARCH

Since the start of the pandemic, epilepsy researchers have faced unanticipated challenges that have threatened the progress of their research. Recognizing these needs early on, our nimble organizational model and generous donors allowed us to act quickly. In partnership with the Cotton family, and in memory of Vivian Cotton, we launched the CURE Epilepsy Research Continuity Fund to support critical research projects impacted by COVID-19.

The CURE Epilepsy Research Continuity Fund provided grants of up to $15,000 to each researcher to cover unexpected costs from the pandemic. These extra expenses could include rebuilding reagents for interrupted experiments, additional salaries to cover employee time, increased costs to comply with COVID-19 health and safety requirements, and funding cuts.

Launched in the fall of 2020, the fund has already benefited 14 research projects, allowing the continuation of vital epilepsy research around the world.

Catherine Christian-Hinman, PhD
University of Illinois at Urbana-Champaign
Neural and Pituitary Mechanisms Linking Epilepsy to Co-Morbid Reproductive Endocrine Dysfunction

Jeff Loeb, MD, PhD
University of Illinois Chicago
Targeting Epileptogenic Effects of Subarachnoid Blood in TBI

Bin Gu, PhD
University of North Carolina at Chapel Hill
Identification of Pathophysiological and Genetic Mechanisms of SUDEP Using an Innovative Genetic Reference Population of Collaborative Cross Mice

Amanda Hernan, PhD
University of Vermont State and Agricultural College
Mechanisms for Improving Cognitive Outcome in Pediatric Epilepsy with ACTH

Tristan Shuman, PhD
Icahn School of Medicine at Mount Sinai
Closed-Loop Resynchronization of Epileptic Circuits

Jason Gerrard, MD, PhD
Yale University
Neuromodulation to Restore Conscious Decision-Making During Seizures

Chris Dulla, PhD
Tufts University
Predicting Post-Traumatic Epilepsy Using Transparent, Stretchable Multielectrode Arrays and Simultaneous Glutamate Imaging

Juan Encinas, PhD
Achucarro Basque Center for Neuroscience
Reactive Neurogenesis and Gliosis in a Model of Generalized Infant Epilepsy
THE BOYCES BELIEVE IN A WORLD WITHOUT EPILEPSY

They shared their son with the world. Now they’re sharing his legacy.

Cameron Boyce started acting as a child, scoring significant roles in everything from music videos and films to a Disney Channel series. A beloved actor, his death—confirmed as Sudden Unexpected Death in Epilepsy (SUDEP)—shocked his family, friends, and fans. The world continues to mourn his talent and the kindness and personality he showed on-screen and in person.

Today, Cameron’s parents, Libby and Victor, continue the humanitarian efforts he started as a young actor with a powerful voice. Through The Cameron Boyce Foundation, the Boyces are committed to ending SUDEP by raising awareness and funding research. Learn why they’ve chosen to partner with CURE Epilepsy to drive research forward.

You’ve often said that Cameron didn’t let epilepsy define his life. Did you or Cameron know about SUDEP and the impact it could have on the life of anyone with epilepsy?

VICTOR: The short answer is no. The first time I heard SUDEP mentioned was when the coroner told me that it caused Cameron’s passing. We were completely blindsided.

LIBBY: When we were told he passed away, we immediately knew it was a seizure. We had worried that he might choke in his sleep or fall out of the bed and hit his head, but we had no clue about SUDEP.

How do you raise awareness about SUDEP without instilling fear in those living with epilepsy?

LIBBY: When Cameron was diagnosed, we were given no tools on how to manage epilepsy. Now, we believe it is a physician’s responsibility to give someone resources to understand what the disease is and what lifestyle changes need to be made. We don’t believe that doctors need to be fatalistic, but they have an obligation to communicate how serious the disease is to reduce certain risks.
The Cameron Boyce Foundation supports a number of worthy causes, including curing epilepsy. Why did you choose to partner with CURE Epilepsy?

LIBBY: We decided to form a foundation within hours of Cameron’s passing, and we knew epilepsy would be a focus area. We didn’t know the world of epilepsy, and a mutual friend connected us to [CURE Epilepsy founder] Susan Axelrod. As we got to know CURE Epilepsy, we recognized the organization as a leader in epilepsy research, truly at the forefront of finding a cure.

What breakthroughs do you believe are possible in epilepsy research?

LIBBY: We believe a cure is possible, and we want to make sure more attention is paid to the disease. It’s the most common neurological disease that we talk about the least. Why? What is the stigma about? By accelerating research, we can get people closer to living normal lives without worrying about dying from a seizure.

Your foundation is funding CURE Epilepsy’s Cameron Boyce Taking Flight Award, supporting the research of Dr. Cristina Reschke. What do you think of the work so far?

LIBBY: Dr. Reschke’s work studies a body’s natural rhythms as a potential connection to seizure patterns. When we heard this, that word – rhythm – jumped out because it really complemented Cameron’s essence. He used rhythm to memorize lines and to perform as a dancer.

We also appreciate that Dr. Reschke is a young, female researcher who is known for over-delivering. Even as a child, she was innovative, creative, and pursued her dreams. Cameron would have loved her for it.

Our epilepsy community understands the pain of lives cut short. What would you say to those who have lost loved ones to this devastating disease?

VICTOR: Everyone’s situation is different, and everyone’s grief is different. Cameron’s memory is a blessing – I try to focus on the positive moments I had with my son, not what was taken away.

We’re not immune from tragedy. If it can happen to us, it can happen to anyone. But, we don’t want SUDEP to impact another family, especially when a cure is possible. We’re making our voice heard through the platform we have, and we believe everyone has a platform that they can use to get us closer to a cure.

We’re lucky to work with CURE Epilepsy. When we first started, we didn’t know how we could make an impact. Because of working with CURE Epilepsy and others, we now believe we can make a difference. We encourage people to keep donating — there are brilliant people that are working very hard to end epilepsy.”

VICTOR BOYCE
Clinical trials are essential research steps to advance new treatments toward Federal Drug Administration (FDA) review and approval. Unlike research conducted in laboratory settings with animal models, clinical trials include human volunteers who help establish a treatment’s safety and effectiveness. The FDA requires that drug companies evaluate potential therapies in clinical trials before they’re approved for the public.

Clinical trials require both healthy volunteers and volunteers with the illness that the new drug will treat. Researchers choose participants based on varying eligibility requirements, including age, gender, type and stage of a disease, previous treatment history, and other medical conditions.

Clinical trials can offer benefits including access to new (and free) medical treatments and expert medical care at leading healthcare facilities. Trial participation is also a tangible way to contribute to medical research that may save lives in the future.

Understanding the risks of clinical trials should be an important part of your decision to participate. Risks could include ineffective or placebo treatment, unpleasant or serious side effects, and the inconvenience of additional treatments and hospital visits for study.

To find a comprehensive list of clinical trials, visit ClinicalTrials.gov - the National Institutes of Health and U.S. National Library’s online clinical trial database. Through this site, you may search for “epilepsy” in the condition or disease field, as well as search by seizure type or the name of the investigational treatment.
WEBINARS TO WATCH

CURE Epilepsy breaks down cutting-edge research and discoveries in free webinars designed to make scientific discoveries more understandable for the epilepsy community as a whole. Visit CUREepilepsy.org/webinars for past episodes or to sign up for live webinars.

ANTIEPILEPTIC DRUG RESEARCH

With approximately one-third of people with epilepsy resistant to current treatment options, it is critical to understand new therapies, their benefits, and potential side effects.

CENOBAMATE: A NEW TREATMENT OPTION FOR PARTIAL-ONSET (FOCAL) SEIZURES
DR. MICHAEL SPERLING,
THOMAS JEFFERSON UNIVERSITY

FENFLURAMINE FOR DRAVET: AN OLD DRUG WITH A NEW PURPOSE
DR. JOSEPH SULLIVAN,
UNIVERSITY OF CALIFORNIA SAN FRANCISCO PEDIATRIC EPILEPSY CENTER

DISPARITIES IN EPILEPSY CARE

Increasing awareness of the social factors that influence epilepsy diagnosis and care is the first step toward eliminating inequities and improving outcomes for all people living with the disease.

OVERCOMING BARRIERS TO IMPROVE CARE AND TREATMENT OUTCOMES
DR. MAGDALENA SZAFLARSKI,
UNIVERSITY OF ALABAMA AT BIRMINGHAM

SOCIAL & ECONOMIC EFFECTS OF EPILEPSY IN SUB-SAHARAN AFRICA
DR. GRETCHEN L. BIRBECK,
UNIVERSITY OF ROCHESTER
Through our leadership role in the epilepsy community, we participate in and host a number of events and activities to share knowledge about the disease and emerging treatments.

Just two years after our founding in 1998, CURE Epilepsy established our leadership role by helping launch the first Curing the Epilepsies Conference with its targeted mission: to talk about a cure for epilepsy, not just treatments. This conference, hosted by the National Institute of Neurological Disorders and Stroke (NINDS), only occurs every seven years on average and has helped develop specific benchmarks and new strategies for epilepsy research.

Over the last three years, CURE Epilepsy actively contributed to review and revision of the epilepsy research priorities that guide the nation’s scientists. This process culminated in January at the 2021 Curing the Epilepsies Conference. This year’s program focused on transformative research priorities, and each session began with a patient story to highlight the personal impact of epilepsy. CURE Epilepsy’s Chief Scientific Officer Dr. Laura Lubbers shared her sister Ellyn’s experience living with the disease, and advocated for a collaborative research infrastructure that accelerates research-based learnings to clinical practice.

CONNECTING WITH OUR RESEARCH COMMUNITY

FRONTIERS IN RESEARCH SEMINAR SERIES
CURE Epilepsy hosts this regular seminar series with generous support from the Nussenbaum-Vogelstein family. The series’ goal is to help educate and expose young scientists to leading epilepsy research. Although these seminars typically occur in person at leading research facilities, we now host them virtually due to the pandemic.

AES ANNUAL MEETING
The American Epilepsy Society offers the most extensive epilepsy education and scientific exchange in the field through its annual meeting in December. After moving the event online, more than 4,500 people participated in sessions, exhibits, posters and virtual networking booths. CURE Epilepsy founder Susan Axelrod helped to host the CURE Epilepsy booth.

PAME MEETING
This year, Partners Against Mortality In Epilepsy (PAME) hosted its annual meeting as an extension of AES. Many CURE Epilepsy grantees presented at the 2020 meeting, and Libby and Victor Boyce of The Cameron Boyce Foundation, a generous supporter of CURE Epilepsy, were keynote speakers. CURE Epilepsy was an initial organizer for PAME and continues to be involved today.
Ellyn experienced her first seizure at 3 months old and subsequently had innumerable partial complex (now called focal aware) seizures. Eventually, Ellyn was diagnosed with a genetic disorder called tuberous sclerosis complex (TSC), but even with a diagnosis, her treatment options remained limited. The numerous medications used to treat the symptoms of TSC, particularly her seizures, negatively impacted her psyche and bone health. In addition, she suffered many injuries during seizures, including falls that broke her wrist and hip.

As the pandemic initially gripped our country, Ellyn contracted COVID-19 and was slow to recover. Although the reason is unclear, her seizures changed from partial complex to status epilepticus. In June 2020, she was transported to a major medical center and put into a coma to stop the seizures. Ellyn eventually recovered enough to be transferred to a rehabilitation facility, but her health deteriorated and she passed away in September.

Her family often thinks of what could have been done differently to manage her medical condition. They are quick to recognize the hard work of Ellyn’s medical team, but also strongly advocate for more treatment options so others don’t have to suffer as Ellyn did.
During this special evening, we gathered together virtually to hear inspirational stories; learn about encouraging new research; enjoy performances from global superstars; and, most importantly, raise critical research funds. Special guests included country music star Eric Church, Rock & Roll Hall of Fame inductee Nils Lofgren, actor Miguel Cervantes, and CNN Chief Medical Correspondent Dr. Sanjay Gupta.

$1.84 million raised
Donors from 42 states
More than 7,000 virtual attendees
Our largest event to date

CURE EPILEPSY WEEK
SEPTEMBER 21-25, 2020

Leading up to Unite to CURE Epilepsy, we hosted a week of virtual activities to shine a light on innovative epilepsy research projects. In addition, we shared stories of people helped by groundbreaking research and how we can continue to drive science forward.
SOCIA LLY DISTANCED, 
BUT COMMITTED TO CURING 
EPILEPSY TOGETHER

For more than a year, we’ve adapted our CURE Epilepsy events and activities to be virtual, including our largest fundraiser of the year. Although we can’t be together in person, you continue to show up in big ways. Thank you for sharing in our mission, supporting our community, and fueling our hope.

Photos from left to right:
Sanjay Gupta, CNN Chief Medical Correspondent
Susan Axelrod, CURE Epilepsy Founder
Mike Barnicle, event host and contributor to MSNBC’s Morning Joe with his wife Anne Finucane, Bank of America Vice Chairman
Cindy and Vera Angulo
Eric Church, award-winning country music star
Michael Platt, teenage culinary entrepreneur living with epilepsy
Miguel Cervantes, Broadway’s “Hamilton”
The late Phil Doran, Jr. and the late Phil Doran, Sr.
Kelly Cervantes, CURE Epilepsy Board Chair-Elect
Nils Lofgren, Rock & Roll Hall of Fame inductee
Lauren Schrero with her husband Adam Levy, co-founders of the Nora Project
Championing Our Cause

Even in the midst of a pandemic, CURE Epilepsy Champions showed their commitment to a cure. While some Champion events were postponed for safety reasons, other activities persevered with creativity and careful planning. Large or small, every generous act increased support for our community.

Annual Event Adapts to Pandemic

$4,800+ Raised

On November 7, 2020, CURE Epilepsy supporters saddled up to enjoy artful horse riding. COVID-19 challenged Champion Channing and her family to brainstorm ways to supplement donations lost due to the reduced number of event attendees. Channing’s mom responded by growing purple carrots in her garden and encouraging donors to sponsor purple carrot “goody bags” for participating horses.

Champions Launch New Event with Powerful Purpose

$5,600+ Raised

The Powers family wouldn’t let a pandemic stop their drive for a cure. The family launched PowerUp for CURE in honor of their son Jack, challenging their friends and family to participate in an outdoor activity while pledging donations to CURE Epilepsy.
BECOME A CURE EPILEPSY CHAMPION

Becoming a CURE Epilepsy Champion is easier than you think. Check out some of our fundraiser types below to get you started:

- CREATE A DIY EVENT
  - Host a community 5K, golf event, virtual yoga class, or livestream an event – get creative!

- CELEBRATE A LIFE EVENT
  - Celebrate a birthday, recognize an anniversary, or remember a loved one – no event setup required!

- SUPPORT A CURE EPILEPSY EVENT
  - Join Team CURE Epilepsy or fundraise around our annual Unite to CURE Epilepsy benefit.

Still not sure where to start? Contact our dedicated staff at (312) 255-1801 or events@CUREepilepsy.org.

CHAMPION FIGHTS FOR A CURE IN HOLIDAY CARD

Champion Elissa Moore added a special message in her family’s 2020 holiday card. During this season of giving, Elissa asked those who received her holiday card to consider donating to CURE Epilepsy in honor of her son’s epilepsy fight. More than 40 supporters responded, praising Cormac’s strength and courageous journey toward being seizure free.

$10,000+ RAISED

TEAM CURE EPILEPSY

As we look ahead to the latter half of 2021, we are hopeful that our Team CURE Epilepsy events will occur safely in person. Please save the date for the below marathons and consider teaming up with CURE Epilepsy so we can outrun epilepsy. Not a runner? Join the Team by volunteering at one of these events.

- OCTOBER 10, 2021: Bank of America Chicago Marathon
- NOVEMBER 7, 2021: TCS New York City Marathon
- NOVEMBER 7, 2021: Los Angeles Marathon and the Charity Challenge 13.1
- NOVEMBER 28, 2021: Amica Insurance Seattle Marathon and Half Marathon
We are profoundly grateful to the thousands of individuals and organizations who, with a gift to CURE Epilepsy, helped advance epilepsy research and our mission to find a cure. While space limits us to print only some of these donors, our gratitude is limitless. Thank you.

The following reflects donors who gave $500 or more between January 1 - December 31, 2020. We have made every effort to ensure the accuracy of this report. If your name has been omitted or misprinted, please accept our sincere apologies and notify the CURE Epilepsy staff at info@CUREepilepsy.org or (312) 255-1801.

To make a donation: CUREepilepsy.org/2021spring
Participants display their “unity” at our 2020 Unite to CURE Epilepsy event.
$100,000–$249,999

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Our Champions are grassroots fundraisers that help us raise critical research funds and bring awareness to epilepsy.

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Our Champions are grassroots fundraisers that help us raise critical research funds and bring awareness to epilepsy.
THANK YOU VOLUNTEERS

The work of CURE Epilepsy would not be possible without all of our volunteers. We thank each of you, including those who serve on our committees.

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External research professionals kindly volunteer their time and expertise to ensure the science we fund has the highest potential impact in the epilepsy community. We do not list their names to maintain the integrity of our grant review process.

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Members of the Lay Review Council dedicate their time to ensure a patient voice and lay perspective in our efforts to fund the best science. We do not list their names to maintain the integrity of our grant review process.

* Term ended in 2020
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CECAC members are directly connected to the epilepsy community as both patients and caregivers and help us reflect the community’s voice in all that we do - including strategic planning, educational programs, fundraising and awareness events, communication strategies, and much more.

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The New York Friends of CURE Epilepsy are a group of dedicated volunteers committed to advancing the mission of CURE Epilepsy through their awareness and fundraising efforts in the New York area.

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Cover photo of Cameron Boyce courtesy of Storm Santos
WE FIGHT TO END EPILEPSY EVERY DAY
BECauses 3 million adults and
nearly 500,000 children in the U.S.
live with epilepsy every day.

Help us to continue to make progress toward a cure.

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CUREepilepsy.org/2021spring

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