

Cure LGS 365 Research Grant Recipient Impact Report



Research Goals:

Improve the ability to diagnose LGS earlier, creating opportunities for early intervention

WHAT ARE THEIR FINDINGS?

- Developed a new method to assess EEG with improved accuracy and sensitivity
- 20%–40% of children with LGS have a history of infantile epileptic spasms syndrome (IESS). This team identified EEG markers predicting the transition from IESS to LGS.

WHAT DOES THIS MEAN FOR LGS?

- Accurate and early diagnosis is critical for seizure control, early interventions and improved outcomes.



Daniel Shrey, MD

Children's Hospital of Orange County



Beth Lopour, PhD



Mary Zupanc, MD

[Learn More About Grantee](#)

LGS Research on the International Stage!

Dr. Shrey shared his these research findings at the American Epilepsy Society (AES) Annual Conference in 2023 and 2024, the largest international epilepsy meeting.



Attendees of AES Annual Conference are researchers, physicians, advocates and industry experts committed to improving lives for people with epilepsy.



Derek Hu, PhD

The LGS Foundation is Cultivating the Next Generation of LGS Researchers

“The funding from the LGS Foundation was instrumental in kindling Dr. Hu’s interest in LGS research!” – Dr. Shrey

A portion of the Cure LGS 365 grant supported the training of Dr. Derek Hu under Dr. Shrey’s supervision. Dr. Hu continues his research on EEG in LGS and infantile spasm syndromes as a new professor at California State University, Long Beach.

Dr. Shrey continues to work with the LGS Foundation on various projects!



- **Dr. Shrey cares for children with refractory seizures, including infantile spasms and LGS.**



- **Dr. Shrey was inducted as a fellow of the American Epilepsy Society in 2021 for his contributions to the field of pediatric epilepsy**

[Learn More about Dr. Shrey](#)

[Learn More about other Cure LGS 365 Grantees](#)