



Julie Raskin #CHIFAM2019 September 21, 2019

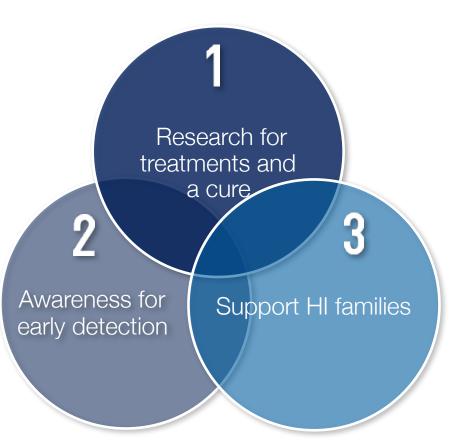


To support HI research for better treatments and cures, raise awareness of HI to reduce brain damage and death, improve access to care and treatment for those with HI, while providing a community for HI families.





## The Three Part Mission







### CHI Scientific Advisors

#### CHI SCIENTIFIC ADVISORS

Dr. Jean-Baptiste Arnoux, Necker Children's Hospital, Paris, France

Dr. Indi Banerjee, University of Manchester, Manchester, UK

Dr. Oliver Blankenstein, Charite Hospital, Berlin, Germany

Dr. Henrik Christesen, Odense University Hospital, Odense, Denmark

Dr. Louise Conwell, University of Queensland, Brisbane, Australia

Dr. Diva De León-Crutchlow, Children's Hospital of Philadelphia, Philadelphia, Pennsylvania, US

Dr. Pascale De Lonlay, Necker Children's Hospital, Paris, France

Dr. Mark Dunne, University of Manchester, Manchester, UK

Dr. Sarah Flanagan, University of Exeter Medical School, Exeter, UK

Dr. Morey Haymond, Texas Children's Hospital, Houston, Texas, US

Dr. Khalid Hussain, Sidra Medical and Research Center, Doha, Qatar

Dr. Klaus Mohnike, Otto von Guericke University, Magdeburg, Germany

Dr. Andrew Palladino, Pfizer, New York, New York, US

Dr. Pratik Shah, Great Ormond Street Hospital, London, UK

Dr. Mark Sperling, Mount Sinai Hospital, New York, NY, US

Dr. Senthil Senniappan, Alder Hey Hospital, Liverpool, UK

Dr. Charles Stanley, Children's Hospital of Philadelphia, Philadelphia, Pennsylvania, US

Dr. Paul Thornton, Cook Children's, Fort Worth, Texas, US

Dr. David Zangen, Hadassah Medical Center, Jerusalem, Israel





















## Working Together



### Research

- Secured funding from a private source for a pilot clinical trial of Exendin 9-39.
- Funded or funding 3 research projects for pilot studies on drug development for a treatment for glutamate dehydrogenase hyperinsulinism.
- Funded research for a pilot study on the bihormonal bionic pancreas for the treatment of diabetes post-pancreatectomy in children with congenital hyperinsulinism.
- Funded research for pilot study on the use of sirolimus to treat hyperinsulinism.
- Funded research towards precision medicine in treatment of congenital hyperinsulinism in infancy.
- Developed the HI Global Registry which will be a key research tool to advance an understanding of the natural history of the condition and new treatments.







# MILLION DOLLAR BIKE RIDE GRANT WINNERS

2018

#### **RESEARCH TOPIC:**

Vitamin E Supplementation in Hyperinsulinism/Hyperammonemia Syndrome

Hyperinsulinism/hyperammonemia (HI/HA) syndrome is the 2nd most common type of congenital HI. It is caused by activating mutations in glutamate dehydrogenase (GDH). Patients with HI/HA syndrome have fasting and protein-induced hyperinsulinemic hypoglycemia due to GDH over-activity in the pancreatic beta cells, which can be treated with diazoxide. However, these patients also have other medical problems due to GDH over-activity in other cell types, for which there is no treatment: hyperammonemia (high blood ammonia levels), seizures, and developmental delays. Vitamin E has been tested in human cell lines and in mice with activating GDH mutations and shows potential promise as a treatment for HI/HA syndrome. This is a two-part pilot clinical study involving children and adults with HI/HA syndrome to 1) determine if oral Vitamin E supplementation is well-tolerated and 2) determine if oral Vitamin E supplementation is effective in reducing hypoglycemia, hyperammonemia, and seizures. This pilot study will potentially lead to a larger and longerterm clinical trial evaluating Vitamin E treatment of HI/HA syndrome.

I am riding to increase awareness and research funding for patients with rare and complex diseases like hyperinsulinism, who need new treatment options.

**RIDING FOR RESEARCH!** 

AWARD RECIPIENT: Amanda Ackermann, MD, PhD

HOME INSTITUTION: Children's Hospital of Philadelphia

AWARD AMOUNT: \$84,080







## HI Global Registr

# BACKGROUND

### **METHODS**

#### A Twenty-Year Journey to the HI Global Registry

A Patient-Powered Research Project Collecting Real World Data from Those Who Live with Congenital Hyperinsulinism

Isabel Calderón; BSc; Davelyn Eaves Hood, MD, MBA; Julie Raskin, MA on behalf of Congenital Hyperinsulinism International







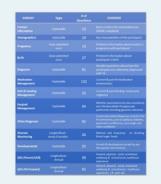


















### Since it's founding in 2005 CHI has:

- Organized 19 HI conferences and meetings around the world bringing together leading global HI specialists to share best practices and research.
- Widely shared and advocated for adoption of the PES Hypoglycemia Guidelines.
- Created the global HI and hypoglycemia awareness poster campaigns to save lives and prevent brain damage. The posters are available in 19 languages.
- Created the Be My Sugar, Stop the Lows, HI Never Sleeps, and Our CHI and many other social media campaigns to save lives and prevent brain damage.
- Shared the patient experience in myriad ways with pharma/ biotech/genetic testing companies to help them develop new treatments and products.



- CHI has helped patients around the world receive life-saving medications, treatment and medical supplies. This year people have visited the CHI website from 123 countries.
- CHI has served as the global source of HI patient and family support.
- Support from CHI is available to the 1,400 people in the HI community around the world who are part of our online support group which is active almost 24 hours a day.
- With support from CHI, the Exeter Clinical Laboratory in the UK is providing genetic testing to patients all over the world suspected of having HI, and who do not have the ability to pay for the testing.
- CHI joined the GPED effort to have diazoxide included on the list of WHO Essential Medicines, and it was just added!



HI affects people all over the world, every race and every ethnicity. Because we are rare, global reach is so important!

- CHI communicates with endocrinologists from 43 countries and people visit our website from 123 countries.
- Through our partnership with the University of Exeter, last year, CHI funded genetic testing for people suspected of HI in 38 countries.
- OCHI scientific advisors come from 7 countries.

The CHI online support group includes people from 65 countries and the HI Global Registry participants comes from every continent.



## 2019 Sugar Soiree





# My CHI Inspiration



