

Status Epilepticus after Benzodiazepines: Seizures and Improving Long-term Outcomes

NIH CounterACT Program

February 28 - March 1, 2023

### **Status Epilepticus:**

### **The Family Perspective**

Nora Wong, PhD, Executive Director, NORSE Institute

**Status Epilepticus after Benzodiazepines:** Seizures and Improving Long-term Outcomes



### Disclaimer

The views expressed in this presentation are those of the author and do not reflect the official policy of NIH.

### Disclosure

This certifies that I, Nora Wong, has no financial relationship that is relevant to the subject matter of the presentation.



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**Doctor-family communication is incomplete**, especially in the acute phase.

Most research focuses on the acute phase

Limited data on long-term outcomes may affect **end-of-life recommendations** 



## Proposed consensus definitions for new-onset refractory status epilepticus (NORSE), febrile infection-related epilepsy syndrome (FIRES), and related conditions

Lawrence J. Hirsch, Nicolas Gaspard, Andreas van Baalen, Rima Nabbout, Sophie Demeret, Tobias Loddenkemper, Vincent Navarro, Nicola Specchio, Lieven Lagae, Andrea O. Rossetti, Sara Hocker, Teneille E. Gofton, Nicholas S. Abend, Emily J. Gilmore, Cecil Hahn, Houman Khosravani, Felix Rosenow, Eugen Trinka First published: 05 February 2018



International consensus recommendations for management of new onset refractory status epilepticus including febrile infection-related epilepsy syndrome: Statements and supporting evidence

Ronny Wickstrom, Olga Taraschenko, Robertino Dilena, Eric T. Payne, Nicola Specchio, Rima Nabbout, Sookyong Koh, Nicolas Gaspard, Lawrence J. Hirsch, the International NORSE Consensus Group First published: 23 August 2022



## Incomplete doctor-family communications

- What families hear from doctors: "Seizures" and "We don't know"
- Discrepancy between doctor's vs. family's view of patient condition grows
- Families unprepared for final decisions, outcomes and rehab requirements
- Doctors may not be fully aware of long-term patient outcomes

#### **Current focus:**

Etiology, biomarkers, phenotyping and treatment comparisons

#### **Expand to:**

Common language and measures

Long-term outcomes

Collaborative infrastructure

AES – NORSE Institute Seed and Infrastructure Grants Applications due March 23, 2023

CURE Epilepsy grants

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## International NORSE/FIRES Family Registry

#### PI: Teneille Gofton, MD, Western U. Canada

Families can register living and deceased patients online Currently 84 patients enrolled

In English, French, Spanish, Simple Mandarin. Hindu and Portuguese soon.

Link on <u>www.norseinstitute.org</u>



### Collaborative NORSE/FIRES Biorepository

#### Director: Lawrence J. Hirsch, MD, Yale

Donating centers do not need IRB to send samples. Shipping paid by Yale.

Analyses: Cytokine, genetic, single-cell RNA sequencing, neuropathology studies (Yale), metagenomic and auto-antibody analyses (UCSF)

Results made publicy available

Remaining samples shared as decided by Biorepository Steering Committee



## **Biorepository Steering Committee**

#### Chair: Lawrence J. Hirsch, MD, Yale

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Aurélie Hanin, Paris Brain Inst./Yale

Anita Huttner, Yale

Sookyong Koh, Children's Hosp. Omaha Chen Liu, Yale Annamaria Vezzani, Mario Negri Inst. Ronny Wickström, Karolinska Univ. Nora Wong, NORSE Institute



### Long-Term Outcomes Working Group

#### PI: Krista Eschbach, MD, Children's Colorado

Andreas van Baalen Sophie Demeret Raquel Farias-Moeller Teneille Gofton Emily Gilmore Margaret Gopaul Lawrence J. Hirsch Hiba Haider Sara Hocker Marissa Kellogg **Gerhard Kluger Felicitas Kluger Eyal Muscal** Vincent Navarro Adam Strzelczyk **Coral Stredny** Olga Taraschenko Sara Vinette Ronny Wickström Nora Wong

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#### NORSE Institute Nora Wong, Executive Director www.norseinstitute.org

Association Paratonnerre Rupert Schiessl, President www.associationparatonnerre.org



### **Centers of Excellence Working Group**

#### Pl's: Sara Hocker, MD and Ronny Wickström, MD, PhD

Krista Eschbach

Hiba Haider

Lawrence J. Hirsch

Nora Wong



## **Working Guideline for Communications**

- Give unified, candid explanations of what is known and not known
- Have families articulate what they understand and their values
- Printable NORSE brochure <u>www.norseinstitute.org</u>
- Request autopsy
- Request organ donation: transplant and NORSE/FIRES biorepository at Yale
- Provide diagnosis codes, Rx, therapy and referrals for rehab
- Discharge planning guide <u>www.norseinstitute.org</u>

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### Thank you.