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Trehalose EAP

Sabrina Paganoni, MD PhD

Robert H. Brown, Jr., PhilD, MD Endowed Chair in Neurology Co-Director, Neurological Clinical Research Institute, Massachusetts General Hospital Sean M. Healey & AMG Center for ALS at Mass General Associate Professor of PM&R, Harvard Medical School

Principal Investigators







Suma Babu, MBBS, MPH

James Berry, MD, MPH

Sabrina Paganoni, MD, PhD

- NIH U01 grant mechanism awarded Sept 2022
- > First EAP funded by NIH-NINDS under ACT for ALS
- ➤ Trehalose EAP to occur in parallel to efficacy trial of trehalose (Regimen E of the HEALEY ALS Platform Trial)
- ➤ Trehalose is delivered via weekly intravenous infusions that can be given in the participants' homes

Overarching Study Goal:

To provide access to trehalose and gather research data to supplement findings from the efficacy trial

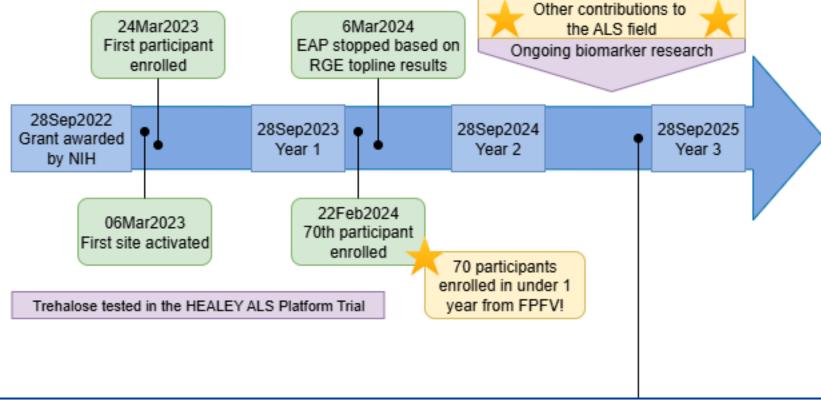
Research Objectives:

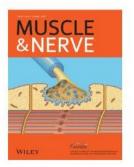
- To generate <u>safety</u> data from a broad population not eligible for clinical trials
- To evaluate the biological impact of trehalose on motor neuron integrity (neurofilament)
- To evaluate the <u>clinical</u> effects of trehalose in this cohort and compared to external controls

70 participants

25 sites across the US

Study Timeline









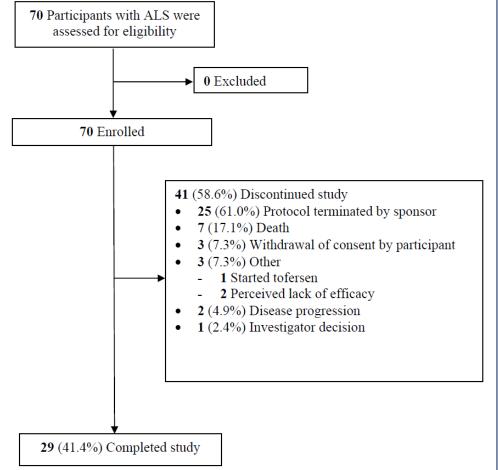
Multicenter Expanded Access Protocol for Research Through Access to Trehalose in People With Amyotrophic Lateral Sclerosis



Study Outcomes Clinical and NfL data in an EAP cohort

- Trehalose EAP enrolled participants not eligible for clinical trials including participants with long disease duration and/or advanced stage
- No new safety signals identified
- ➤ The NfL slope estimates per month were flat [-0.005 (SE=0.0078; 95% CI (-0.021, 0.011)]
- Propensity-score matching analysis (Answer ALS) showed no benefit of trehalose in ALSFRS-R total scores or survival over the study period

Baseline Data	Total (n=70)
Bulbar onset, No. (%)	29 (41.4)
Time since ALS symptom onset, mean (SD), mo	44.86 (28.91)
ALSFRS-R score, mean (SD)	27.9 (8.88)
Use of NIV, No. (%)	37 (52.9)
70 Participants with ALS were assessed for eligibility	



Biomarker Research

840 serum aliquots collected (baseline and longitudinal)

108 serum aliquots used for NfL testing

461 serum aliquots used for biomarker projects

271 serum aliquots donated for future research





ALS Biomarker Analyses

Partnerships with biomarker expert groups foster cutting edge ALS biomarker discovery projects





ICON: Tau, pTau, miRNA





MIT & Broad: Metabolomics





Protavio: Olink (disease mechanistic protein pathway analyses)







SomaLogic: Proteomics



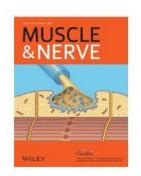


Johns Hopkins University: Cryptic Exons

Trehalose EAP samples + Answer ALS + ALL-ALS samples

Conclusions

- The trehalose EAP was conducted in parallel to a phase 2/3 trial testing the efficacy of trehalose
- ➤ The trehalose EAP enrolled participants NOT eligible for the trial and collected safety, clinical and biological data in a population including patients with long disease duration and/or advanced disease
- All data have been deposited into PROACT and the ALS Knowledge Portal (AMP ALS, NIH)
- > Samples are being used to generate new biomarker knowledge in collaboration with other large scale ALS projects



CLINICAL RESEARCH ARTICLE 🔂 Open Access 😊 😯 😑 💲

Multicenter Expanded Access Protocol for Research Through Access to Trehalose in People With Amyotrophic Lateral Sclerosis



Thank you to our study sites and the Coordination Center (MGH and BNI)



Top Enrolling Sites

Mass General – 10 participants

Washington University – 9 participants

Texas Neurology – 6 participants

Virginia Commonwealth – 6 participants

Nova Southeastern – 6 participants

70 participants

21 sites

Site	Site Investigator
Massachusetts General Hospital	Sabrina Paganoni, MD, PhD
Texas Neurology	Daragh Heitzman, MD
Saint Alphonsus	Jackie Whitesell, MD
Holy Cross Hospital	Gustavo Alameda, MD
Virginia Commonwealth	Kelly Gwathmey, MD
Nova Southeastern University	Eduardo Locatelli, MD, MPH
University of lowa	Andrea Swenson, MD
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University of Colorado, Anschutz	Laura Foster, MD
Hospital for Special Care	Charles Whitaker, MD
George Washington University, MFA	Elham Bayat, MD
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University of Maryland School of Medicine Baltimore	Lindsay Zilliox, MD
Thomas Jefferson University	Hristelina Ilieva, MD, PhD
Beth Israel Deaconess Medical Center	Courtney Mcllduff, MD
Lehigh Valley Health Network	Alison Walsh, MD
Barrow Neurological Institute	Shafeeq Ladha, MD
Spectrum Health	Paul Twydell, DO
University of California, San Francisco	Laura Rosow, MD

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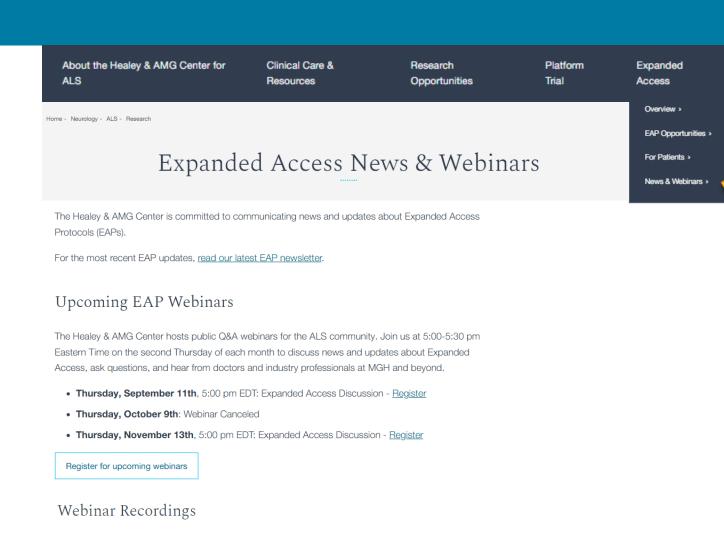
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News &

Events

Patient Navigation Central resource for people living with ALS



Catherine Small

Phone: 833-425-8257 (HALT ALS)

E-mail: <u>healeyalsplatform@mgh.harvard.edu</u>

Register for webinars:



https://bit.ly/3r6Nd2L

EAP webinars second Thursday each month!

<u>Upcoming Webinars (Thurs, 5:00- 5:30pm Eastern Time)</u>:

November 20 – HEALEY ALS Platform Trial Discussion

December 11 – Expanded Access Discussion