# **HEALEY ALS Platform Trial**

Weekly Q&A – Sept 2, 2021

















### **Healey Center**

Sean M. Healey & AMG Center for ALS at Mass General







































### **Guest Speaker**

Terry Heiman-Patterson, MD
Temple University, PA
Platform Trial Site Investigator



# MDA ALS Center of Hope at Temple University Lewis Katz School of Medicine







# ALS is a family affair!













# Treatment of ALS Takes a Team Approach We are the Extended Family!

#### Multidisciplinary Approach

- PT/OT
- Assistive Technologist
- Speech and Language Pathology
- Nutrition
- Respiratory therapy
- Psychotherapy
- Nursing
- Research

Symptom Management

Disease modification

**Encouraging Clinical Research** 











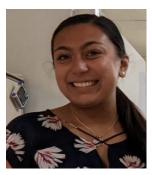
















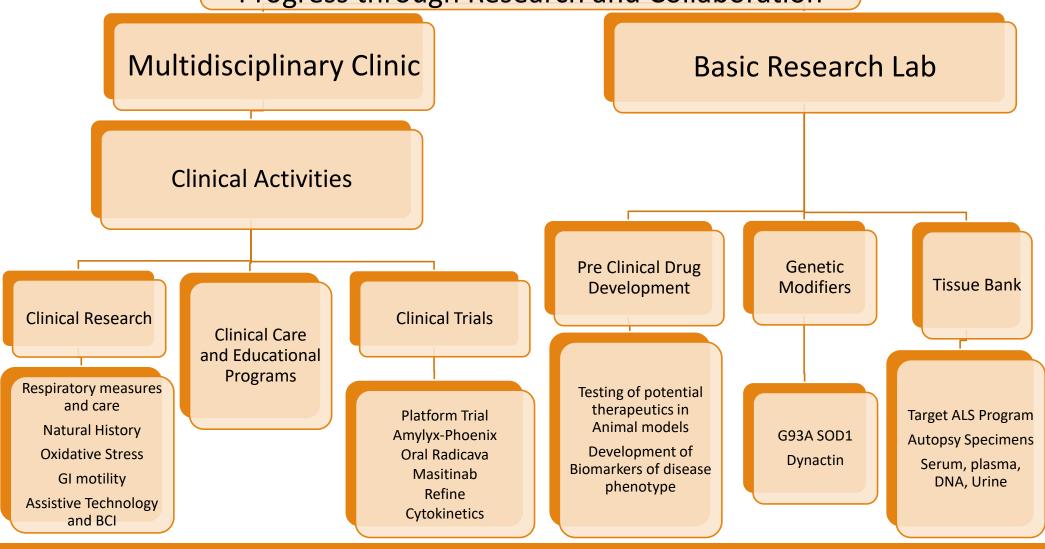




#### MDA/ ALS Center of Hope

Commitment to Care

Progress through Research and Collaboration





# MDA/ALS Center of Hope Basic Research Program



#### **Genetic Modifiers of ALS Mice**

- We have identified genetic regions on Chr17 in SOD 1 mice that modify the severity of illness in the SOD1 mouse and also in mice with other motor neuron diseases
- Translational Consortium: We are working with a group of investigators to develop a program to translate our findings regarding modifiers of disease in mice to humans
- These modifiers will serve as targets for treatment, help us understand ALS and motor neuron diseases, and may provide biomarkers of disease

Oxidative Stress in ALS and Effects of anti-oxidant medication

**Biomarker Initiatives** 

Maintenance of a Tissue Bank and Autopsy bank



#### ALS Center of Hope: Clinical Research Program

#### **Clinical Trials**

- Healey Platform Trial
- Phoenix and Centaur
- MT-1186-A01 and AO2
- Cytokinetics Reldesemtiv
- Masitinab
- Chromolyn
- Phenotype Differences in Response to Radicava

#### **Clinical Research**

- Biomarkers (Target ALS, Refine)
- Tissue Bank
- Natural History Studies (ALS, PLS, MOV'R)
- Philadelphia Respiratory Consortium
- Oxidative Stress in ALS
- GI motility
- Health Outcomes and Cost Analysis for PALS and Clinics
- BCI/Assistive Technology
  - Technology for independent control/communication
  - Use and Needs Technology Survey



# Leveraging Technology While We Work on the Cure

Develop and Test the Next Generation of Technology

Home Based Systems for Brain Computer Interfaces (EEG based p300)

**Expand Functionality** 

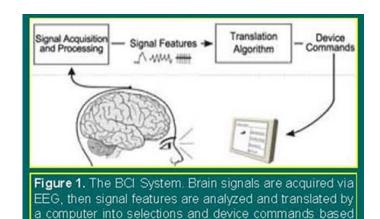
Environmental control

Long term goal of mobility

Create an independently useable simple system

Control on –off switch accessible by the user

Use affordable off the shelf commercially available components

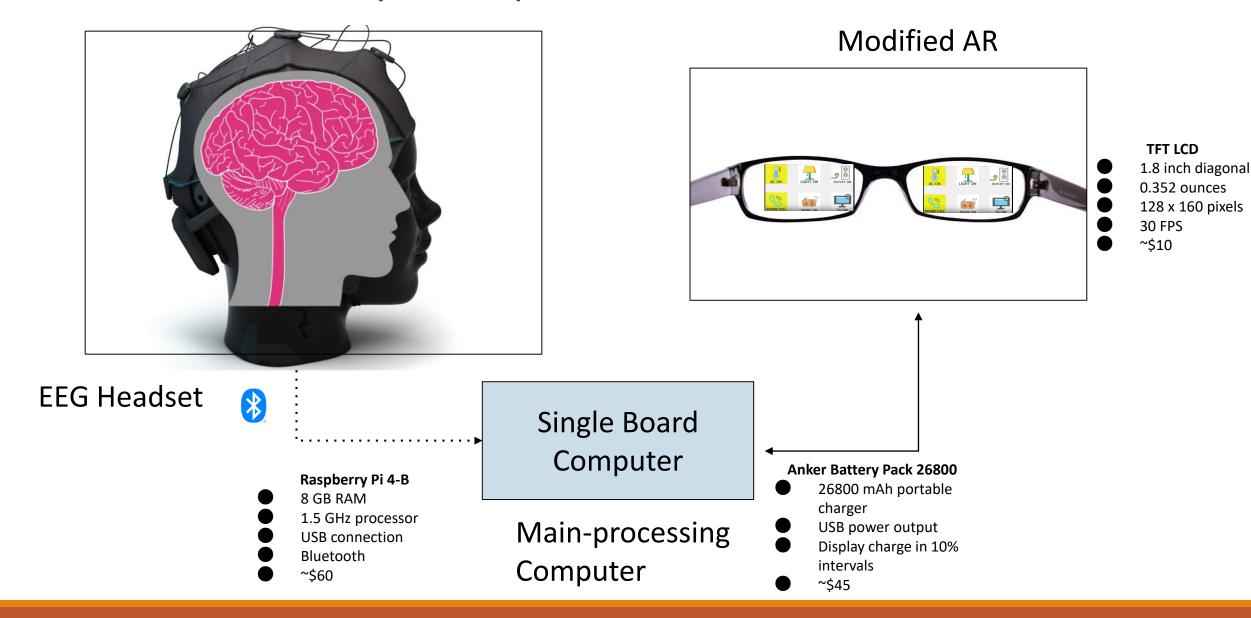


on user intent (Wolpaw et al., 2002)





## Solution Pathway: Simplification



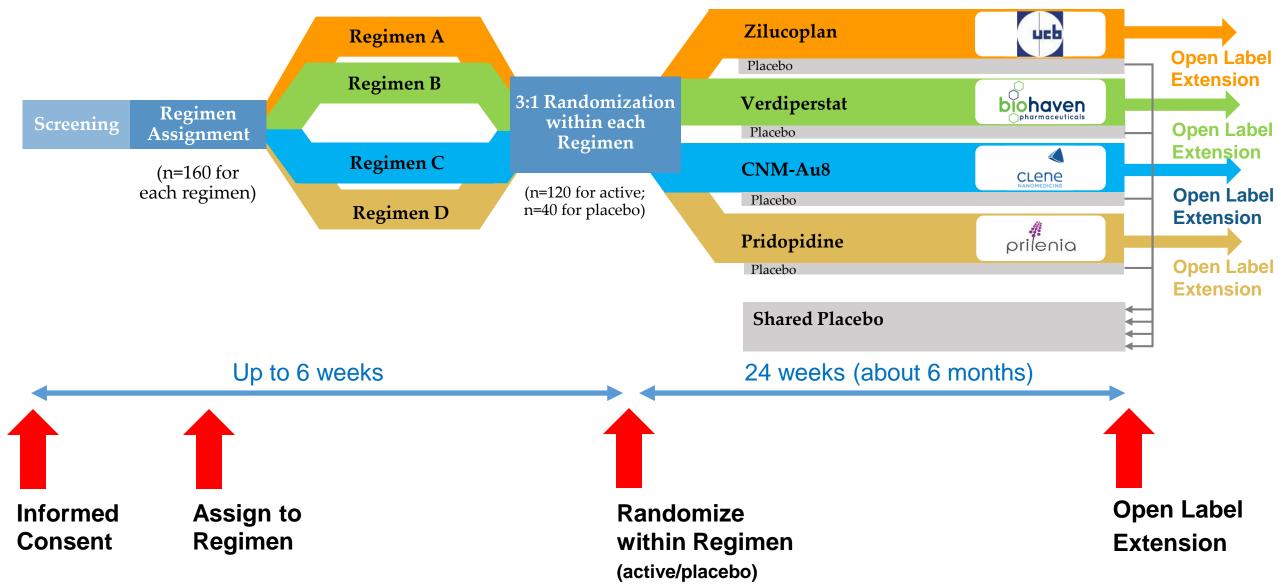
# Prototype has been built!



Accuracy in Test Group: 81%

- Plans in process:
  - Develop Bluetooth connections
  - Develop independent control
  - Beta test on PALS

#### Perpetual Adaptive Trial Shared Placebo; Randomization Ratio 3:1 Open Label Extension (OLE) offered



### Enrollment Updates (as of September 2, 2021)

- 724 individuals with ALS signed informed consent
- 575 individuals were assigned to a regimen
- 523 individuals were randomized within a regimen (active or placebo)
- 195 have entered the Open Label Extension (OLE)

Total randomized + Participants in screening

- 142 individuals were randomized within Regimen A = 152
- 158 individuals were randomized within Regimen B = 164
- 158 individuals were randomized within Regimen C = 161
- 65 individuals were randomized within Regimen D = 69



### **Patient Navigator**



# Catherine Small Allison Bulat

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To see whether you might qualify, view the list of eligibility criteria:

https://bit.ly/3p4PrLL



#### Send us webinar ideas!

- Biomarkers
- Biostatistics / Trial Design
- Get to know our sites





#### **Upcoming Guest Speakers:**

Sept 9th- Jennifer DiMartino (Executive Director, ALS ONE)

Sept 16th- No webinar this week in observance of Yom Kippur

Sept 23<sup>rd</sup>- Namita Goyal, MD (University of CA Irvine, CA)

Oct 7<sup>th</sup>- No webinar this week