

Interagency Collaborative to Advance Research in **Epilepsy** 2015 Meeting

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New Transitions for ICARE Members





- The NINDS/AES Benchmark Stewards became a committee of the American Epilepsy Society (AES)
 - The Stewards are at work on mid-course progress reports for the Epilepsy benchmarks, plans to publish in *Epilepsy Currents* in 2016
- Vision 20-20 adopted a new organizational structure and name - The Epilepsy Leadership Council (ELC).





Current Activities / Opportunities









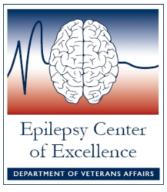
- AES recently launched a survey tool called Q-Pulse allows for rapid collection of data from epilepsy specialists on current clinical practice.
 - NEW Strategic plan- education, research, best practices, awareness
- CURE continues to support its Infantile Spasms Bedside to Bench to Bedside Initiative
- PCORI supported Rare Epilepsy Network (REN), administered by the Epilepsy Foundation-Dravet, Ohtahara, Aicardi, CDKL5, Dup15q, Hypothalamic Hamartoma, lennox Gestaut, PCDH19, Phelan McDermid, Tuberous sclerosis,
- The CDC has several active initiatives likely of interest to ICARE:
 - Managing Epilepsy Well
 - Resources to advance epilepsy self-management.
 - Network of universities to facilitate high quality research to advance the science of epilepsy self management
 - Project to Learn about Youth Mental Health (PLAY-MH)
 - cross-sectional epidemiologic studies within schools to characterize the underlying prevalence, diagnosis and treatment of children's mental, emotional, and behavioral disorders – includes epilepsy



Current Activities (Continued)







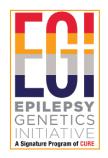
- The ELC, AES, CURE, EF, TS Alliance, NINDS, and others supported the Partners Against Mortality in Epilepsy Meeting (PAME) in 2014
- The TS Alliance and NINDS hosted a strategic planning workshop for TSC in March
 - The TS alliance is already moving forward with plans to expand its natural history database to include biospecimens
- The VA and their Epilepsy Centers of Excellence continue to have a major interest in post-traumatic and non-epileptic seizures
 - In addition, VA ECoE Basic Science and Clinical Research Workgroups continue to be open to anyone interested in participating and collaborating.

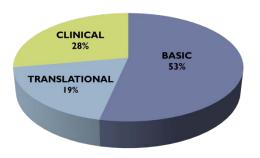




New Partnerships





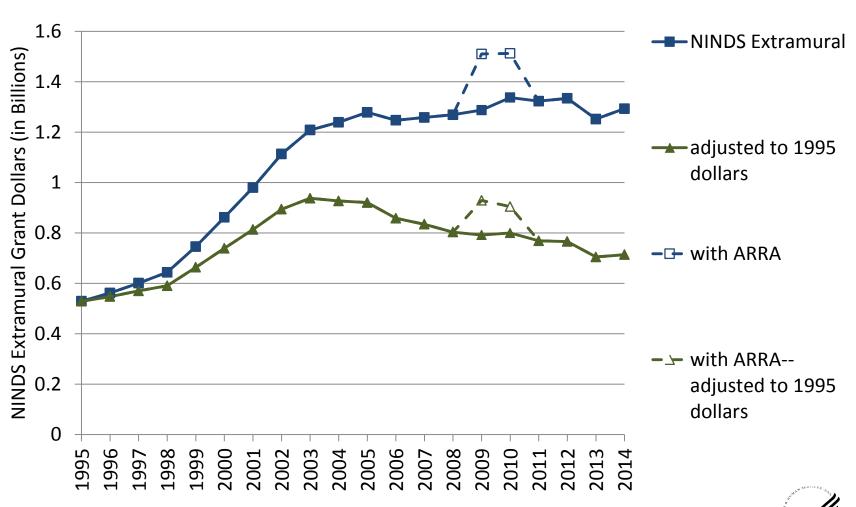


- AES and ELC launched the Epilepsy Research Connection (ERC) website at the beginning of this month
 - Website serves as a one-stop destination for investigators to search for epilepsy research funding opportunities
 - (Rob Moss will be demoing the ERC later today)
- Epilepsy Genetics Initiative (EGI) created by CURE in partnership with the NINDSsupported Epi4K Centers without Walls
 - (Tracy Dixon-Salazar from CURE will be discussing this in more detail later today)
- ICARE 2013 Portfolio Analysis





Total NINDS Extramural Grants Budget





NIH/NINDS Investment in Epilepsy

Estimates of Funding from Research, Condition, and Disease Categories (RCDC)

(Dollars in millions and rounded)	FY 2010	FY 201 ARRA	FY 2011	FY 2012	FY2013	FY2014
NIH	134	25	152	144	128	153
NINDS	109	20	127	125	114	130

- NIH/NINDS is the leading funder of neuroscience research, including research on Epilepsy
- NINDS is committed to:
 - Building a strong foundation of research discovery
 - Rapidly translating basic research findings into clinical practice

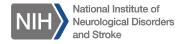




Brain Research through Advancing Innovative Neurotechnologies (BRAIN) Initiative

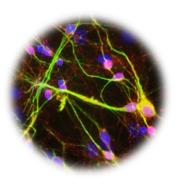


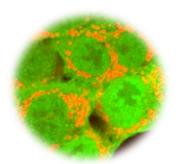
- Goal: To map the circuits of the brain, measure and understand the fluctuating patterns of electrical and chemical activity flowing within those circuits
- We need to be able to see the circuits in action to:
 - Understand how the brain forms memories
 - Determine how to therapeutically modulate brain activity
 - Improve motor control in Parkinson's Disease
- Funding in FY 2014
 - \$46M invested in 58 projects across six different funding opportunities
 - > 100 investigators in 15 states and three countries
- Funding in FY 2015
 - Investment expands to \$80M
 - 13 different funding opportunities
- Other Federal Agencies include NSF, FDA, IARPA, and DARPA
 - DARPA System-Based Neurotechnology for Emerging Therapies (SUBNETS) focuses on developing next-generation devices inspired by current Deep Brain Stimulation (DBS) technology



NINDS Supports Epilepsy Research Across the Spectrum

- Molecular mechanisms, genetic and environmental risk factors
- Centers without Walls
 - Ері4К
 - Center for SUDEP Research (CSR)
- Translational Programs
 - Blueprint Neurotherapeutics, IGNITE, CREATE
- Clinical research
 - ESETT (status epilepticus), MONEAD (maternal outcomes)
- Training next generation of researchers and clinicians
- Resources
 - Anticonvulsant Screening Program
 - Sudden Death in Young Registry with CDC, NHLBI
 - Seizure Detection and Prediction Challenge











New Representatives to ICARE

Amy Brooks-Kayal, MD
 AES

Barbara Kroner, PhD Epilepsy Leadership Council (ELC)

Anthony Pacifico, PhD DOD, CDMRP

• Abigail Hemani Dravet Syndrome Foundation





ICARE 2015 Let's get started!

Walter J. Koroshetz, M.D.

Acting Director

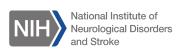
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NINDS

Seeking Knowledge about the Brain, Reducing the Burden of Disease

