

## **Trial of the Week: ESETT References**

Special Guest: Ashley McCormick, PharmD, BCPS, BCCCP

### **Featured Trial**

Kapur J, Elm J, Chamberlain JM, Barsan W, Cloyd J, Lowenstein D, Shinnar S, Conwit R, Meinzer C, Cock H, Fountain N, Connor JT, Silbergleit R; NETT and PECARN Investigators. Randomized Trial of Three Anticonvulsant Medications for Status Epilepticus. *N Engl J Med*. 2019 Nov 28;381(22):2103-2113. <https://pubmed.ncbi.nlm.nih.gov/31774955/>

### **Guidelines**

Neurocritical Care Society Status Epilepticus Guideline Writing Committee. Guidelines for the evaluation and management of status epilepticus. *Neurocrit Care*. 2012 Aug;17(1):3-23. <https://pubmed.ncbi.nlm.nih.gov/22528274/>

Glauser T, Shinnar S, Gloss D, et al. Evidence-Based Guideline: Treatment of Convulsive Status Epilepticus in Children and Adults: Report of the Guideline Committee of the American Epilepsy Society. *Epilepsy Curr*. 2016 Jan-Feb;16(1):48-61. <https://pubmed.ncbi.nlm.nih.gov/26900382/>

### **Articles Referenced**

Treiman DM, Meyers PD, Walton NY, et al. A comparison of four treatments for generalized convulsive status epilepticus. Veterans Affairs Status Epilepticus Cooperative Study Group. *N Engl J Med*. 1998 Sep 17;339(12):792-8. <https://pubmed.ncbi.nlm.nih.gov/9738086/>

Allredge BK, Gelb AM, Isaacs SM, et al. A comparison of lorazepam, diazepam, and placebo for the treatment of out-of-hospital status epilepticus. *N Engl J Med*. 2001 Aug 30;345(9):631-7. <https://pubmed.ncbi.nlm.nih.gov/11547716/>

NETT Investigators. Intramuscular versus intravenous therapy for prehospital status epilepticus. *N Engl J Med*. 2012 Feb 16;366(7):591-600. <https://pubmed.ncbi.nlm.nih.gov/22335736/>

Neurological Emergencies Treatment Trials; Pediatric Emergency Care Applied Research Network investigators. Efficacy of levetiracetam, fosphenytoin, and valproate for established status epilepticus by age group (ESETT): a double-blind, responsive-adaptive, randomised controlled trial. *Lancet*. 2020 Apr 11;395(10231):1217-1224.

<https://pubmed.ncbi.nlm.nih.gov/32203691/>

Coralic Z, Kapur J, Olson KR, et al. Treatment of Toxin-Related Status Epilepticus With Levetiracetam, Fosphenytoin, or Valproate in Patients Enrolled in the Established Status Epilepticus Treatment Trial. *Ann Emerg Med*. 2022 Sep;80(3):194-202.

<https://pubmed.ncbi.nlm.nih.gov/35718575/>

Cock HR, Coles LD, Elm J, et al. Lessons from the Established Status Epilepticus Treatment Trial. *Epilepsy Behav*. 2019 Dec;101(Pt B):106296. <https://pubmed.ncbi.nlm.nih.gov/31653603/>

Sathe AG, Underwood E, Coles LD, et al. Patterns of benzodiazepine underdosing in the Established Status Epilepticus Treatment Trial. *Epilepsia*. 2021 Mar;62(3):795-806.

<https://pubmed.ncbi.nlm.nih.gov/33567109/>

Sathe AG, Elm JJ, Cloyd JC, et al. The association of patient weight and dose of fosphenytoin, levetiracetam, and valproic acid with treatment success in status epilepticus. *Epilepsia*. 2020 Jun;61(6):e66-e70. <https://pubmed.ncbi.nlm.nih.gov/32420641/>

PREDICT research network. Levetiracetam versus phenytoin for second-line treatment of convulsive status epilepticus in children (ConSEPT): an open-label, multicentre, randomised controlled trial. *Lancet*. 2019 May 25;393(10186):2135-2145.

<https://pubmed.ncbi.nlm.nih.gov/31005386/>

Paediatric Emergency Research in the United Kingdom & Ireland (PERUKI) collaborative. Levetiracetam versus phenytoin for second-line treatment of paediatric convulsive status epilepticus (EcLiPSE): a multicentre, open-label, randomised trial. *Lancet*. 2019 May 25;393(10186):2125-2134. <https://pubmed.ncbi.nlm.nih.gov/31005385/>