



NIH CounterACT
Program

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

February 28 - March 1, 2023



Workshop resources for attendees

[Neuroinflammation as a Therapeutic Target for Mitigating the Long-Term Consequences of Acute Organophosphate Intoxication.](#)

Andrew PM, Lein PJ.

Front Pharmacol. 2021 May 12;12:674325. doi: 10.3389/fphar.2021.674325. eCollection 2021.

PMID: 34054549 **Free PMC article.**

[New-Onset Refractory Status Epilepticus Secondary to COVID-19 Infection in Adults: A Systematic Review](#)

Aabiya Arif, Yeny Chavarria, Mohammad Aadil Qamar, Sameer Saleem Tebha, Mehwish Butt, Khulud Qamar, Abubakr Yosufi

Neuropsychiatr Dis Treat. 2022; 18: 1951–1961. Published online 2022 Aug 30. doi:

10.2147/NDT.S381018 **Free PMC article.**

[Management of Refractory Status Epilepticus: An International Cohort Study \(MORSE CODE\) Analysis of Patients Managed in the ICU](#)

Wei-Ting Chiu, Vanessa Campozano, Alois Schiefecker, Dannys Rivero Rodriguez, Daniel Ferreira, Amy Headlee, Sinead Zeidan, Alexandra Grinea, Yao-Hsien Huang, Kevin Doyle, Qi Shen, Diana Gómez, Sara E. Hocker, Benjamin Rohaut, Romain Sonnevile, Chien-Tai Hong, Sophie Demeret, Pedro Kurtz, Nelson Maldonado, Raimund Helbok, Telmo Fernandez, Jan Claassen

Neurology. 2022 Sep 13; 99(11): e1191–e1201. doi: 10.1212/WNL.0000000000200818 **Free PMC article.**

[Factors associated with mortality in patients with super-refractory status epilepticus](#)

Yi-Ting Fang, Tsung-Lin Lee, Yi-Hsien Tu, Sheng-Hsiang Lin, Miao-Er Chien, Chin-Wei Huang, Kuei-Sen Hsu, Yi-Jen Wu

Sci Rep. 2022; 12: 9670. Published online 2022 Jun 11. doi: 10.1038/s41598-022-13726-9 **Free PMC article.**

[Factors associated with long-term outcomes in pediatric refractory status epilepticus](#)

Marina Gaínza-Lein, Cristina Barcia Aguilar, Juan Piantino, Kevin E. Chapman, Iván Sánchez Fernández, Marta Amengual-Gual, Anne Anderson, Brian Appavu, Ravindra Arya, James Nicholas Brenton, Jessica L. Carpenter, Justice Clark, Raquel Farias-Moeller, William D. Gaillard, Tracy A. Glauser, Joshua L. Goldstein, Howard P. Goodkin, Linda Huh, Robert Kahoud, Kush Kapur, Yi-Chen Lai, Tiffani L. McDonough, Mohamad A. Mikati, Lindsey A. Morgan, Anuranjita Nayak, Edward Novotny, Jr, Adam P. Ostendorf, Eric T. Payne, Katrina Peariso, Latania Reece, James Riviello, Kumar Sannagowdara, Tristan T. Sands, Theodore Sheehan, Robert C. Tasker, Dmitry Tchapyjnikov, Alejandra Vasquez, Mark S. Wainwright, Angus Wilfong, Korwyn Williams, Bo Zhang, Tobias Loddenkemper, the Pediatric Status Epilepticus Research Group

Epilepsia. 2021 Sep; 62(9): 2190–2204. Published online 2021 Jul 12. doi: 10.1111/epi.16984 **Free PMC article.**

[New-onset refractory status epilepticus \(NORSE\) and febrile infection-related epilepsy syndrome \(FIRES\): State of the art and perspectives.](#)

Gaspard N, Hirsch LJ, Sculier C, Loddenkemper T, van Baalen A, Lancrenon J, Emmery M, Specchio N, Farias-Moeller R, Wong N, Nabbout R.

Epilepsia. 2018 Apr;59(4):745-752. doi: 10.1111/epi.14022. Epub 2018 Feb 24.

PMID: 29476535 Review.

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

Hirsch LJ, Gaspard N, van Baalen A, Nabbout R, Demeret S, Loddenkemper T, Navarro V, Specchio N, Lagae L, Rossetti AO, Hocker S, Gofton TE, Abend NS, Gilmore EJ, Hahn C, Khosravani H, Rosenow F, Trinka E.

Epilepsia. 2018 Apr;59(4):739-744. doi: 10.1111/epi.14016. Epub 2018 Feb 5.

PMID: 29399791 Review.

[Randomized Trial of Three Anticonvulsant Medications for Status Epilepticus](#)

Jaideep Kapur, Jordan Elm, James M. Chamberlain, William Barsan, James Cloyd, Daniel Lowenstein, Shlomo Shinnar, Robin Conwit, Caitlyn Meinzer, Hannah Cock, Nathan Fountain, Jason T. Connor, Robert Silbergleit

N Engl J Med. Author manuscript; available in PMC 2020 May 28.

Published in final edited form as: N Engl J Med. 2019 Nov 28; 381(22): 2103–2113. doi:

10.1056/NEJMoa190579 **Free PMC article.**

[Unraveling the enigma of new-onset refractory status epilepticus: a systematic review of aetiologies](#)

Simona Lattanzi, Markus Leitinger, Chiara Rocchi, Sergio Salvemini, Sara Matricardi, Francesco Brigo, Stefano Meletti, Eugen Trinkla

Eur J Neurol. 2022 Feb; 29(2): 626–647. Published online 2021 Nov 2. doi: 10.1111/ene.15149 **Free PMC article.**

[Refractory and Super-Refractory Status Epilepticus in Nerve Agent-Poisoned Rats Following Application of Standard Clinical Treatment Guidelines.](#)

Morgan JE, Wilson SC, Travis BJ, Bagri KH, Pagarigan KT, Belski HM, Jackson C, Bounader KM, Coppola JM, Hornung EN, Johnson JE, McCarren HS.

Front Neurosci. 2021 Sep 10;15:732213. doi: 10.3389/fnins.2021.732213. eCollection 2021.

PMID: 34566572 **Free PMC article.**

[Mechanism-based novel antidotes for organophosphate neurotoxicity.](#)

Reddy DS.

Curr Opin Toxicol. 2019 Apr;14:35-45. doi: 10.1016/j.cotox.2019.08.001. Epub 2019 Aug 21.

PMID: 32856007 **Free PMC article.**

[Comparative profile of refractory status epilepticus models following exposure of cholinergic agents pilocarpine, DFP, and soman](#)

Doodipala Samba Reddy, Marcus Zaayman, Ramkumar Kuruba, Xin Wu

Neuropharmacology. Author manuscript; available in PMC 2022 Jun 15.

Published in final edited form as: Neuropharmacology. 2021 Jun 15; 191: 108571. Published online

2021 Apr 18. doi: 10.1016/j.neuropharm.2021.108571 **Free PMC article.**

[Early Exposure of Fosphenytoin, Levetiracetam and Valproic acid after High Dose Intravenous Administration in Young Children with Benzodiazepine-refractory Status Epilepticus](#)

Abhishek G. Sathe, Usha Mishra, Vijay Ivaturi, Richard Brundage, James C. Cloyd, Jordan J. Elm, James M. Chamberlain, Robert Silbergleit, Jaideep Kapur, Daniel H. Lowenstein, Shlomo Shinnar, Hannah R. Cock, Nathan B. Fountain, Lynn Babcock, Lisa D. Coles

J Clin Pharmacol. Author manuscript; available in PMC 2022 Jun 1.

Published in final edited form as: J Clin Pharmacol. 2021 Jun; 61(6): 763–768. Published online 2021 Jan 12 **Free PMC article.**

[What have we learned from the RAMPART and ESETT randomized controlled trials?](#)

Silbergleit R.

Epilepsy Behav. 2022 Dec 26:109051. doi: 10.1016/j.yebeh.2022.109051. Online ahead of print.

PMID: 36577548

[Mechanisms of organophosphate neurotoxicity.](#)

Tsai YH, Lein PJ.

Curr Opin Toxicol. 2021 Jun;26:49-60. doi: 10.1016/j.cotox.2021.04.002. Epub 2021 Apr 30. PMID: 34308007; PMCID: PMC8302047. **Free PMC article.**

[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, Stephane Auvin, Andreas van Baalen, Ettore Beghi, Susanne M. Benseler, Peter Bergin, Tom Bleck, Andreas Brunklaus, Roberto H. Caraballo, Mackenzie Cervenka, Daniel Costello, Frank Drislane, Raquel Farias-Moeller, William Gallantine, Emily Gilmore, Teneille Gofton, Maria Angeles Perez Jimenez, Sara Hocker, Marios Kaliakatsos, Marissa Kellogg, Jong Woo Lee, Tobias Loddenkemper, Stefano Meletti, Masashi Mizugushi, Eyal Muscal, James J. Riviello, Eric S. Rosenthal, Andrea O. Rossetti, Stefan Ruegg, Rana Said, Claudine Sculier, Sarah Schmitt, Stephan Schuele, Coral Stredny, Eugen Trinkka, Mark Wainwright, Stephen VanHaerents, Elisabeth Wells, Elaine Wirrell, Sameer M. Zuberi

Epilepsia. 2022 Nov; 63(11): 2840–2864. Published online 2022 Sep 27. doi: 10.1111/epi.17397 **Free PMC article.**

[Midazolam-Resistant Seizures and Brain Injury after Acute Intoxication of Diisopropylfluorophosphate, an Organophosphate Pesticide and Surrogate for Nerve Agents](#)

Xin Wu, Ramkumar Kuruba, Doodipala Samba Reddy

J Pharmacol Exp Ther. 2018 Nov; 367(2): 302–321. Published online 2018 Nov. doi: 10.1124/jpet.117.247106 **Free PMC article.**