

# Seizures and Status Epilepticus in Adults

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## REFERENCES

1. Cadena R: Understanding ACEP's clinical policy on seizures. *Emergency Physicians Monthly*, September 20-21, 2014.
2. Lipka K, Bulow H: Lactic acidosis following convulsions. *Acta Anaesthesiol Scand* 47: 616, 2003. [PMID: 12699523]
3. Chen DK, So YT, Fisher RS: Use of serum prolactin in diagnosing epileptic seizures. *Neurology* 65: 668, 2005. [PMID: 16157897]
4. American College of Emergency Physicians: Critical issues in the evaluation and management of adult patients presenting to the emergency department with seizures. *Ann Emerg Med* 43: 605, 2004.
5. Hope OA, Zeber JE, Kessin N, et al: New-onset geriatric epilepsy care: race, setting of diagnosis, and choice of antiepileptic drug. *Epilepsia* 50: 285, 2009. [PMID: 19054416]
6. Hakami T, McIntosh A, Todaro M, et al: MRI-identified pathology in adults with new-onset seizures. *Neurology* 81: 920, 2013. [PMID: 23925763]
7. Dionisio S, Brown H, Boyd R, Blum S: Managing the generalized tonic-clonic seizure and preventing progress to status epilepticus: a stepwise approach. *Intern Med J* 43: 739, 2013. [PMID: 23614871]
8. Huff JS, Melnick ER, Tomaszewski CA, et al: Clinical policy: critical issues in the evaluation and management of adult patients presenting to the emergency department with seizures. *Ann Emerg Med* 63: 437, 2014. [PMID: 28395919]
9. Schmidt D, Schachter SC: Drug treatment of epilepsy in adults. *Br Medical J* 348: g254, 2014. [PMID: 24583319]
10. Pesola GR, Westfal RE: New-onset generalized seizures in patients with AIDS presenting to an emergency department. *Acad Emerg Med* 5: 905, 1998. [PMID: 9754504]
11. Modi G, Modi M, Martinus I, et al: New-onset seizures associated with HIV infection. *Neurology* 55: 1558, 2000. [PMID: 11094114]
12. Rajshekhar V, Jeyaseelan L: Seizure outcome in patients with a solitary cerebral cysticercus granuloma. *Neurology* 62: 2236, 2004. [PMID: 15210888]
13. White AC: Neurocysticercosis: updates on epidemiology, pathogenesis, diagnosis, and management. *Annu Rev Med* 51: 187, 2000. [PMID: 10774460]
14. Garcia HH, Evans CA, Nash TE, et al: Current consensus guidelines for treatment of neurocysticercosis. *Clin Microb Rev* 15: 747, 2002. [PMID: 12364377]
15. Duley L, Henderson-Smart D: Magnesium sulphate versus diazepam for eclampsia. *Cochrane Database Sys Rev* 2: CD000127, 2000. [PMID: 10796145]
16. Witlin AG, Sibai BM: Magnesium sulfate therapy in preeclampsia and eclampsia. *Obstet Gynecol* 92: 883, 1998. [PMID: 9794688]
17. Magpie Trial Collaboration Group: Do women with pre-eclampsia, and their babies, benefit from magnesium sulphate? The Magpie Trial: a randomized placebo-controlled trial. *Lancet* 359: 1877, 2002. [PMID: 12057549]
18. Gold JA, Rimal B, Nolan A, et al: A strategy of escalating doses of benzodiazepines and phenobarbital administration reduces the need of mechanical ventilation in delirium tremens. *Crit Care Med* 35: 724, 2007. [PMID: 17255852]
19. Chen JW, Wasterlain CG: Status epilepticus: pathophysiology and management in adults. *Lancet Neurol* 5: 246, 2006. [PMID: 16488380]
20. Lowenstein DH, Bleck T, Macdonald RL: It's time to revise the definition of status epilepticus. *Epilepsia* 40: 120, 1999. [PMID: 9924914]
21. Shorvon SD, Baulac TM, Cross H, et al: The drug treatment of status epilepticus in Europe: consensus document from a workshop at the first London colloquium of status epilepticus. *Epilepsia* 49: 2177, 2008.
22. Shorvon S, Ferlisi M: The treatment of super-refractory status epilepticus: a critical review of available therapies and a clinical treatment protocol. *Brain* 134: 2802, 2011. [PMID: 21914716]
23. Smith KR, Kittler JT: The cell biology of synaptic inhibition in health and disease. *Curr Opin Neurobiol* 20: 550, 2010. [PMID: 20650630]
24. Friedman A: Blood-brain barrier dysfunction, status epilepticus, seizures, and epilepsy: a puzzle of a chicken and egg. *Epilepsia* 52: 19, 2011. [PMID: 21967353]
25. Shah AM, Vashi A, Jagoda A: Review article: convulsive and non-convulsive status epilepticus: an emergency medicine perspective. *Emerg Med Australas* 21: 352, 2009. [PMID: 19840084]
26. Semmlack S, Yeginsoy D, Spiegel R, et al: Emergency response to out-of-hospital status epilepticus. *Neurology* 89: 376, 2017. [PMID: 28659426]
27. Sibergleit R, Durkalski V, Lowerstein D, et al: Double-blinded randomized clinical trial of the efficacy of intramuscular midazolam versus intravenous lorazepam in the pre-hospital treatment of status epilepticus by paramedics. *Epilepsia* 52 (suppl 8): 45, 2011. [PMID: 21967361]
28. Sibergleit R, Durkalski V, Lowenstein D, et al: Intramuscular versus intravenous therapy for prehospital status epilepticus. *N Engl J Med* 366: 591-600, 2012. [PMID: 22335736]
29. Treiman DM, Meyers PD, Walton NY, et al: A comparison of four treatments for generalized convulsive status epilepticus. *N Engl J Med* 339: 792, 1998. [PMID: 9738086]
30. McIntyre J, Robertson S, Norris E, et al: Safety and efficacy of buccal midazolam versus rectal diazepam for emergency treatment of seizures in children: a randomized controlled trial. *Lancet* 366: 205, 2005. [PMID: 16023510]
31. Mpimbaza A, Ndezezi G, Staedke S, et al: Comparison of buccal midazolam with rectal diazepam in the treatment of prolonged seizures in Ugandan children: a randomized clinical trial. *Pediatrics* 121: e58, 2008. [PMID: 18166545]
32. Glauer 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* 16: 48, 2016. [PMID: 26900382]
33. Cock H, ESETT Group: Established Status Epilepticus Treatment Trial (ESETT). *Epilepsia* 52 (suppl 8): 50, 2017. [PMID: 21967363]
34. Meek PD, Davis SN, Collin DM, et al: Guidelines for nonemergency use of parenteral phenytoin products: proceedings of an expert panel consensus process. Panel on Non-emergency Use of Parenteral Phenytoin Products. *Arch Intern Med* 159: 2639, 1999. [PMID: 10597754]
35. Agarwal P, Kumar N, Chandra R, et al: Randomized study of intravenous valproate and phenytoin in status epilepticus. *Seizure* 16: 527, 2007. [PMID: 17616473]
36. Sinha S, Naritoku DK: Intravenous valproate is well tolerated in unstable patients with status epilepticus. *Neurology* 55: 722, 2000. [PMID: 10980746]
37. Wheless JW, Treiman DM: The role of the newer antiepileptic drugs in the treatment of generalized convulsive status epilepticus. *Epilepsia* 49 (suppl 9): 74, 2008. [PMID: 19087120]
38. Gamez-Leyva G, Aristin JL, Fernández E, Pascual J: Experience with intravenous levetiracetam in status epilepticus. *CNS Drugs* 23: 983, 2009.
39. Aiguabella M, Falip M, Villanueva V, et al: Efficacy of intravenous levetiracetam as an add-on treatment in status epilepticus: a multicenter observational study. *Seizure* 20: 60, 2011. [PMID: 21145758]
40. Santamarina E, Toledo M, Suerias M, et al: Usefulness of intravenous lacosamide in status epilepticus. *J Neurol* 260: 3122, 2013. [PMID: 24122063]
41. Mayer SA, Claassen J, Lokin J, et al: Refractory status epilepticus, frequency, risk factors, and impact on outcome. *Arch Neurol* 59: 205, 2002. [PMID: 11843690]
42. Classen J, Hirsch LJ, Emerson RG, Mayer SA: Treatment of status epilepticus if first drug fails. *Epilepsia* 40 (suppl 7): 243, 2002.
43. Stecker MM, Kramer TH, Raps EC, et al: Treatment of refractory status epilepticus with propofol: clinical and pharmacokinetic findings. *Epilepsia* 39: 18, 1998. [PMID: 9578008]
44. Prasad A, Worrall BB, Bertram EH, et al: Propofol and midazolam in the treatment of refractory status epilepticus. *Epilepsia* 42: 380, 2001. [PMID: 11442156]
45. Kramer AH: Early ketamine to treat refractory status epilepticus. *Neurocrit Care* 16: 299, 2012. [PMID: 22237581]
46. Synowiec AS, Singh DS, Yenugadhati V, et al: Ketamine use in the treatment of refractory status epilepticus. *Epilepsy Res* 105: 183, 2012. [PMID: 23369676]
47. Gaspard N, Foreman B, Judd LM, et al: Intravenous ketamine for the treatment of refractory status epilepticus: a retrospective multicenter study. *Epilepsia* 54: 1498, 2013. [PMID: 23758557]
48. Keros S, Buranqi E, Alex B, et al: Increasing ketamine use for refractory status epilepticus in US pediatric hospitals. *J Child Neurol* 32: 638, 2017. [PMID: 28349774]