

Brief Resolved Unexplained Events and Apparent Life-Threatening Events

Ilene Claudius
Joel Tieder

REFERENCES

1. Infantile apnea and home monitoring. *Natl Inst Health Consens Dev Conf Consens Statement* 6: 1, 1986. [PMID: 3808807]
2. Stratton SJ, Taves A, Lewis RJ, et al: Apparent life-threatening events in infants: high-risk in the out-of-hospital environment. *Ann Emerg Med* 43(6): 711, 2004. [PMID: 15159701]
3. dePiero AD, Teach SJ, Chamberlain JM: ED evaluation of infants after an apparent life-threatening event. *Am J Emerg Med* 22: 83, 2004. [PMID: 15011218]
4. Davies F, Gupta R: Apparent life threatening events in infants presenting to an emergency department. *Emerg Med J* 19(1): 11, 2002. [PMID: 11777863]
5. Vigo A, Balagna R, Brazzi L, et al: Apparent life-threatening events: helping infants help themselves. *Pediatr Emerg Care* July 9, 2016 [Epub ahead of print]. [PMID: 27415643]
6. Tieder JS, Bonkowsky JL, Etzel RA, et al: Brief resolved unexplained events (formerly apparent life-threatening events) and evaluation of lower-risk infants: executive summary. *Pediatrics* 137: e20160591, 2016. [PMID: 27474017]
7. Brooks JG: Apparent life-threatening events and apnea of infancy. *Clin Perinatol* 4: 809, 1992. [PMID: 1464192]
8. Kiechl-Kohlendorfer U, Hof D, Peglow UP, et al: Epidemiology of apparent life-threatening events. *Arch Dis Child* 90: 297, 2005. [PMID: 15723922]
9. Monti MC, Borrelli P, Nosetti L, et al: Incidence of apparent life-threatening events and post-neonatal risk factors. *Acta Paediatr* March 6, 2016 [Epub ahead of print]. [PMID: 26946490]
10. Hall KL, Zalman B: Evaluation and management of apparent life-threatening events in children. *Am Fam Physician* 71: 2301, 2005. [PMID: 15999867]
11. <http://emedicine.medscape.com/article/800032-overview> (Rocker JA, Israel J: Emedicine, Pediatric apnea. Updated October 7, 2009.) Accessed April 26, 2010.
12. DeWolfe CC: Apparent life-threatening event: a review. *Pediatr Clin North Am* 52: 1127, 2005. [PMID: 16009260]
13. Henderson-Smart DJ: The effect of gestational age on the incidence and duration of recurrent apnea in newborn babies. *Aust Paediatr J* 17: 273, 1981. [PMID: 7347216]
14. McGovern MC, Smith MB: Causes of apparent life-threatening events in infants: a systematic review. *Arch Dis Child* 89: 1043, 2004. [PMID: 15499062]
15. Kahn A, European Society for the Study and Prevention of Infant Death: Recommended clinical evaluation of infants with apparent life-threatening event. Consensus document of the European Society for the Study and Prevention of Infant Death, 2003. *Eur J Pediatr* 163: 112, 2004. [PMID: 14652748]
16. Vandenplas Y, Rudolf C, DiLorenzo C, et al: Pediatric gastroesophageal reflux clinical practice guidelines: joint recommendations of the North American Society for Pediatric Gastroenterology, Hepatology, and Nutrition (NASPGHAN) and the European Society for Pediatric Gastroenterology, Hepatology, and Nutrition (ESPGHAN). *J Pediatr Gastroenterol Nutr* 49: 498, 2009. [PMID: 19745761]
17. Blasco-Alonso J, Yun-Castilla C, Giron Fernandez-Crehuet F, et al: Esophageal multi-channel intraluminal impedance and pH testing in the study of apparent life-threatening episode incidents in infants. *Rev Esp Enferm Dig* 106(3): 159, 2014. [PMID: 25007014]
18. Mousa H, Woodley FW, Metheny M, et al: Testing the association between gastroesophageal reflux and apnea in infants. *J Pediatr Gastroenterol Nutr* 41(2): 169, 2005. [PMID: 16056095]
19. Hasenstab KA, Jadcherla SR: Respiratory events in infants presenting with apparent life-threatening events: is there an explanation from esophageal motility? *J Pediatr* 165(2): 250, 2014. [PMID: 24681180]
20. Gleeson M, Clancy RL, Cox AJ, et al: Mucosal immune response to infections in infants with acute life-threatening events classified as "near-miss" sudden infant death syndrome. *FEMS Immunol Med Microbiol* 42: 105, 2004. [PMID: 15325403]
21. Sabogal C, Auais A, Napchan G, et al: Effect of respiratory syncytial virus on apnea in weaning rats. *Pediatr Res* 57: 819, 2005. [PMID: 15774838]
22. Abreu e Silva FA, Brezinova V, Simpson H: Sleep apnea in acute bronchiolitis. *Arch Dis Child* 57: 467, 1982. [PMID: 7092312]
23. Wilwerth BM, Harper MB, Greenes DS: Identifying hospitalized who have bronchiolitis and are at high risk for apnea. *Ann Emerg Med* 48: 441, 2006. [PMID: 16997681]
24. Jofre ML, Luchsinger FV, Zepeda FG, et al: Apnea as a presenting symptom in human metapneumovirus infection. *Rev Chilena Infectol* 24: 313, 2007. [PMID: 17728921]
25. www.cdc.gov/pertussis/clinical/diagnostic-testing/index.html (Centers for Disease Control and Prevention: Pertussis (whooping cough): diagnostic testing.) Accessed June 26, 2015.
26. Guenther E, Powers A, Srivasta R, et al: Abusive head trauma in children presenting with an apparent life-threatening event. *J Pediatr* 157: 821, 2010. [PMID: 20955853]
27. Pitetti RD, Maffei F, Chang K, et al: Prevalence of retinal hemorrhages and child abuse in children who present with an apparent life-threatening event. *Pediatrics* 110: 557, 2002. [PMID: 12205260]
28. Altman RL, Brand DA, Forman S, et al: Abusive head injury as a cause of apparent life-threatening events in infancy. *Arch Pediatr Adolesc Med* 157: 1011, 2003. [PMID: 14557163]
29. Truman TL, Ayoub CC: Considering suffocatory abuse and Munchausen by proxy in the evaluation of children experiencing apparent life-threatening events and sudden infant death syndrome. *Child Maltreat* 7: 138, 2002. [PMID: 12020070]
30. Guenther E, Powers A, Srivasta R, et al: Abusive head trauma in children presenting with an apparent life-threatening event. *J Pediatr* 157: 821, 2010. [PMID: 20955853]
31. Southall DP, Plunkett MC, Banks MW, et al: Covert video recordings of life-threatening child abuse: lessons for child protection. *Pediatrics* 100: 735, 1997. [PMID: 9346973]
32. Jenny C, Hymel KP, Ritzen A, et al: Analysis of missed cases of abusive head trauma. *JAMA* 281(7): 621, 1999. [PMID: 10029123]
33. Sugar NF, Taylor JA, Feldman KW: Bruises in infants and toddlers: those who don't bruise rarely bruise. Puget Sound Research Network. *Arch Pediatr Adolesc Med* 153(4): 399, 1999. [PMID: 10201724]
34. Harper NS, Feldman KW, Sugar NF, et al: Additional injuries in young infants with concern for abuse and apparently isolated bruises. *J Pediatr* 165(2): 383, 2014. [PMID: 24840754]
35. DeRidder CA, Berkowitz CD, Hicks RA, et al: Subconjunctival hemorrhages in infants and children: a sign of nonaccidental trauma. *Pediatr Emerg Care* 29(2): 222, 2013. [PMID: 23546430]
36. Parker K, Pitetti R: Mortality and child abuse in children presenting with apparent life-threatening events. *Pediatr Emerg Care* 27: 591, 2011. [PMID: 21712749]
37. Bonkowsky JL, Guenther E, Filloux FM, Srivastava R: Death, child abuse, and adverse neurologic outcome of infants after an apparent life-threatening event. *Pediatrics* 122: 125, 2008. [PMID: 18595995]
38. Hickson GB, Altemeier WA, Martin ED, Campbell PW: Parental administration of chemical agents: a cause of apparent life-threatening events. *Pediatrics* 83: 772, 1989. [PMID: 2717293]
39. Pitetti RD, Whitman E, Zaylor A: Accidental and nonaccidental poisonings as a cause of apparent life-threatening events in infants. *Pediatrics* 122: e359, 2008. [PMID: 18676522]
40. Avinar S, Berkovitch M, Dalkian H, et al: Use of a homeopathic preparation for "infantile colic" and an apparent life-threatening event. *Pediatrics* 125: e318, 2010. [PMID: 20100745]
41. Zuckerbraun NS, Zomorodi A, Pitetti RD: Occurrence of serious bacterial infection in infants aged 60 days or younger with an apparent life-threatening event. *Pediatr Emerg Care* 25: 19, 2009. [PMID: 19116498]
42. Brand DA, Altman RL, Purtill K, Edwards KS: Yield of diagnostic testing in infants who have had an apparent life-threatening event. *Pediatrics* 115: 885, 2005. [PMID: 15805360]
43. Altman RL, Li KL, Brand DA: Infections and apparent life-threatening events. *Clin Pediatr* 47: 372, 2008. [PMID: 18057143]
44. Kant S, Fisher JD, Nelson DG, et al: Mortality after discharge in clinically stable infants admitted with a first-time apparent life-threatening event. *Am J Emerg Med* 31: 730, 2013. [PMID: 23399327]
45. DiMario FJ Jr: Prospective study of children with cyanotic and pallid breath-holding spells. *Pediatrics* 107: 265, 2016. [PMID: 11158456]
46. Rabasco J, Vigo A, Vitelli O, et al: Apparent life-threatening events could be a wake-up call for sleep disordered breathing. *Pediatr Pulm* 51(12): 1403, 2016. [PMID: 27163733]
47. Takahashi T, Yamasa K, Kobayashi H, et al: Metabolic disease in 10 patients with sudden unexpected death in infancy or acute life-threatening events. *Pediatr Int* 57(3): 348, 2015. [PMID: 25919294]
48. Hoki R, Bonkowsky JL, Minich LL, Srivastava R, Pinto NM: Cardiac testing and outcomes in infants after an apparent life-threatening event. *Arch Dis Child* 97: 1034, 2012. [PMID: 23012307]
49. Tieder JS, Cowan CA, Garrison MM, Christakis DA: Variation in inpatient resource utilization and management of apparent life-threatening events. *J Pediatr* 152: 629, 2008. [PMID: 18410764]
50. Al-Kindy HA, Gélinas J, Hatzakis G, Côté A: Risk factors for extreme events in infants hospitalized for apparent life-threatening events. *J Pediatr* 154: 317, 2009. [PMID: 19874753]
51. Claudius I, Keens T: Do all infants with apparent life-threatening events need to be admitted? *Pediatrics* 119: 679, 2007. [PMID: 17403838]
52. Kaji AH, Claudius I, Santillanes G, et al: Apparent life-threatening event: multicenter prospective cohort study to develop a clinical decision rule for admission to the hospital. *Ann Emerg Med* 61: 379, 2013. [PMID: 23026786]
53. Ramanathan R, Corwin MJ, Hunt CE, et al: Cardiorespiratory events recorded on home monitors: comparison of healthy infants with those at increased risk for SIDS. *JAMA* 285(17): 2199, 2001. [PMID: 11325321]
54. Campanozzi A, Boccia G, Pensabene L, et al: Prevalence and natural history of gastroesophageal reflux: pediatric prospective survey. *Pediatrics* 123: 779, 2009. [PMID: 19255002]
55. Tieder JS, Altman RL, Bonkowsky JL, et al: Management of apparent life-threatening events in infants: a systematic review. *J Pediatr* 163: 94, 2013. [PMID: 2341561256]
56. Mittal MK, Sun G, Baren JM: A clinical decision rule to identify infants with apparent life-threatening event who can be safely discharged from the emergency department. *Pediatr Emerg Care* 28(7): 599, 2012. [PMID: 22743742]
57. Milioti S, Einspeler C: The long-term outcome of infantile apparent life-threatening even (ALTE): a follow-up until midpuberty. *Neuropediatrics* 36: 1, 2012. [PMID: 15776316]
58. Choi HJ, Kim YH: Relationship between the clinical characteristics and intervention scores of infants with apparent life-threatening events. *J Korean Med Sci* 30(6): 763, 2015. [PMID: 26028930]