

MARK E. BRULEY, CCE, FACCE

VICE PRESIDENT EMERITUS ACCIDENT AND FORENSIC INVESTIGATION

ECRIInstitute
The Discipline of Science. The Integrity of Independence.

Mobile: +1 (617) 229-7881

E-mail: markebruley@gmail.com

Publications

Mr. Bruley's publications on healthcare technology and related patient safety and biomedical/clinical engineering issues number more than 160, including journal articles, proceedings, and book chapters.

His ECRI Institute publications for which he was principal author or a major contributing author include more than 100 works. [Note: ECRI Institute's publications are institutional work products: individual authors are not identified in these published articles.]

1. ECRI Institute. H0225: Normal priority medical device alert. ECRI Institute continues to recommend maximum temperature setting of 130° F for blanket warming cabinets. Plymouth Meeting (PA): ECRI Institute; 2014 Feb 6. 3 p. (Health Devices Alerts).
2. New Clinical Guide to Surgical Fire Prevention. *Health Devices* 2009 Oct;38(10):314-332.
3. Surgical fire safety [Guidance article]. *Health Devices* 2006;35(2):45-66.
4. Investigating device-related burns [Guidance article]. *Health Devices* 2005;34(12):393-413.
5. Circumcision clamps, scissors-type: Procedure/checklist 480-0100 [Inspection and preventive maintenance (IPM) procedure]. *Health Devices* 2000; 29(1):22-3.
6. Preventing patient entrapment in beds [Talk to the Specialist]. *Health Devices* 1998; 27(3):115-6.
7. Nitrous oxide(N₂O) cryosurgical units must be scavenged [Hazard Update]. *Health Devices* 1996; 25(8):306-9.
8. Fires from defibrillation during oxygen administration [hazard]. *Health Devices* Jul 1994;23(7):307-8.
9. Investigating device-related "burns" [Guidance article]. *Health Devices* 1993; 22(7):334-52.
10. Electric beds: Do not use in psychiatric wards [Hazard]. *Health Devices* 1991; 20(12):495-6.
11. Oxygen regulator fire caused by use of two yoke washers [Hazard]. *Health Devices* 1990; 19(11):426-7.
12. Infant home apnea monitors: Essential safety features and practices [Hazard]. *Health Devices* 1990; 19(4):142-5.
13. Electric beds can kill children [Hazard update]. *Health Devices* 1989; 18(9):323-5.
14. Fires from blankets warmed in microwave ovens [Hazard]. *Health Devices* 1989; 18(6):234-5.
15. Getinge steam and EtO sterilizers with powered horizontal doors [Hazard]. *Health Devices* 1989; 18(3-4):135-7.
16. Nitrous oxide cryosurgical units must be scavenged [Hazard]. *Health Devices* 1987; 16(12):407-9.
17. Inspiron disposable adult manual resuscitator [Hazard]. *Health Devices* 1987; 16(11):377-8.
18. Defibrillation in oxygen-enriched environments [hazard]. *Health Devices* Mar-Apr 1987;16(3-4):113.

19. Electric beds can kill children [Hazard]. *Health Devices* 1987; 16(3-4):109-110.
20. Hall Surgairtome pneumatic drills [Hazard]. *Health Devices* 1986; 15(12):338.
21. Amsco cart washers [Hazard]. *Health Devices* 1986; 15(12):335.
22. Should hospitals repair cryosurgical units? *Health Devices* 1986; 15(12):332.
23. Ambulance fires: A hazard of heavy use. *Health Devices* 1986; 15(12):327.
24. Amedco electric hospital beds, Models 3, 4, 2102, 2103, 2104, and 6830 [Hazard]. *Health Devices* 1986; 15(11):317.
25. Air embolism from (Haemonetics Cell Saver III) autotransfusion units [Hazard]. *Health Devices* 1986; 15(7):210.
26. OR fires: Preventing them and putting them out. *Health Devices* 1986; 15(5):132.
27. Surgical lights [User Experience Network]. *Health Devices* 1986; 15(1):23.
28. Inspiron disposable volume ventilator breathing circuits catalog no. 003282 [Hazard]. *Health Devices* 1983; 12(12):319-20.
29. Electric beds and the pediatric patient [Hazard]. *Health Devices* 1983; 12(8):203-7.
30. Electric beds in pediatric areas [Update]. *Health Devices Alerts* 1983 Apr 22.
31. Inappropriate use of oxygen to inflate or power medical devices [Hazard]. *Health Devices* 1982; 12(2):54-5.
32. Pneumatic tourniquets used for regional anesthesia [Hazard]. *Health Devices* 1982; 12(2):48-9.
33. Electric beds in pediatric areas. *Health Devices* 1982; 11(11):302.
34. Polyurethane foam pads banned in Boston - ECRI asks: Where's the fire? *Health Devices* 1982; 11(10):263ff.
35. OR fires don't need flammable anesthetics [Poster]. *Health Devices* 1982; 11(7):207.
36. OR fires: Preventing them and putting them out. *Health Devices* 1982; 11(7):207.
37. Foster reversible orthopedic bed [Hazard]. *Health Devices* 1982; 11(3-4):118-9.
38. Case study: An accident involving a washer-sterilizer. [Incident reporting and investigation] *Hospital Risk Control* 1982 Jun:A-8.2.
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42. Deseret Angiocath catalog no. 2878 [Hazard]. *Health Devices* 1981; 10(12):298.
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45. American V. Mueller coagulation forceps [Hazard]. *Health Devices* 1981; 10(10):256.

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52. Roto-Rest Mark I Kinetic treatment tables [Hazard]. *Health Devices* 1981; 10(6-7):171-2.
53. NDM ECG monitoring cables used on Stat Scope monitors [Hazard]. *Health Devices* 1981; 10(6-7):173-4.
54. Datascope Model 692 defibrillator paddles [Hazard]. *Health Devices* 1981; 10(6-7):171-2.
55. Diatek electronic thermometer probe covers [Hazard]. *Health Devices* 1981; 10(5):127.
56. Fenwal blood warmers [Hazard]. *Health Devices* 1981; 10(4):100.
57. Air embolism during angiographic injection [Hazard]. *Health Devices* 1981; 10(3):126.
58. Misuse of Aerway disposable nebulizer cups [Hazard]. *Health Devices* 1981; 10(3):76.
59. Borg-Warner Model 66 birthing bed [Hazard]. *Health Devices* 1981; 10(3):73-4.
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67. Concept Accu-Temp disposable cautery units [Hazard]. *Health Devices* 1980; 9(10-11):291.
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71. Babybird ventilators and Airbird resuscitators [Hazard]. *Health Devices* 1980; 9(8):211-2.
72. Inspiron disposable one-way valves [Hazard]. *Health Devices* 1980; 9(8):210-1.
73. Air Shields drainage system; operator error and misuse [Hazard]. *Health Devices* 1980; 9(7):188.
74. Siphon has cylinders and cryosurgical units [Hazard]. *Health Devices* 1980; 9(7):187.
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77. Cameron-Miller bipolar laparoscopy forceps, Models 80-7527 and 80-7545 [Hazard]. *Health Devices* 1980; 9(6):164.
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80. MRL Models MD520, MDR521, and MDR520 ECG monitors [Hazard]. *Health Devices* 1980; 9(4-5):131.
81. Fires during surgery of the head and neck area [Hazard]. *Health Devices* 1979; 9(2):50-2.
82. Misuse of Ohio non-immersion heaters [Hazard]. *Health Devices* 1979; 9(1):23.
83. Gendron wheeled stretchers [Hazard]. *Health Devices* 1979; 9(1):22.
84. Nitrous oxide exhausted from cryosurgical units [Update]. *Health Devices* 1979; 9(1):9.
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88. Electric heating pads in hospitals. *Health Devices* 1978; 8(2):40.
89. Water mattresses on electric beds. *Health Devices* 1978; 7(11):290.
90. EMT traction splint [Update]. *Health Devices* 1978; 7(10):260.
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93. Electric beds [Evaluation]. *Health Devices* 1978; 7(6-7):147-72.
94. Borg-Warner hospital beds [Hazard]. *Health Devices* 1978; 7(5):144.
95. Electric blankets in hospitals. *Health Devices* 1978; 7(3):90.
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98. Emergency traction splints [Evaluation]. *Health Devices* 1977; 6(8):184-94.
99. Defibrillation on a water mattress. *Health Devices* 1977; 6(5):122.
100. Orthopedic litters [Evaluation]. *Health Devices* 1976; 5(10):239-45.

[For the following ECRI Institute publications Mr. Bruley was one of the major contributing authors (limited to 1990-present.)

101. Alternate-Site Burns from Improperly Seated or Damaged Electrosurgical Pencil Active Electrodes. *Health Devices* 2012 Oct; 41(10):334. See also: *Health Devices Alerts* 2012 Sep 11; Accession No. H0177.
102. ECRI Institute. Retained foreign objects: it's not the robot's fault. Plymouth Meeting (PA): ECRI Institute PSO; 2012 May 31. 3 p. (Patient Safety E-Alerts).
103. Internal wire breakage in reusable electrosurgical active electrode cables may cause sparking and surgical fires [hazard]. *Health Devices* 2009 (Jul); 38(7): 228-9.
104. ECRI Institute revises its recommendations for temperature limits on blanket warmers [hazard update]. *Health Devices* 2009 (Jul); 38(7): 228-9.
105. Using the wrong size surgical stapler cartridge can injure patients [hazard]. *Health Devices* 2009 Apr; 38(4): 120-30.
106. High-speed surgical drills may overheat and cause burns. *Health Devices* 2008 July; 37(7):213-215.
107. Limiting temperature settings on blanket and solution warming cabinets can prevent patient burns. *Health*

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108. Limiting temperature settings on blanket and solution warming cabinets can prevent patient burns. *Health Devices* 2005 May;34(5):168-171.
 109. Preventing burns and fires caused by high-powered light sources [hazard report]. *Health Devices* 2005 Sep;34(9):325-6.
 110. A clinician's guide to surgical fires: how they occur, how to prevent them, how to put them out [guidance article]. *Health Devices* 2003; 32(1):5-24.
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 113. Alternate-site burns from improperly seated electrosurgical pencil active electrodes [hazard] *Health Devices* 2000 Jan;29(1):24-7.
 114. Fire blankets in the OR? [talk to the specialist]. *Health Devices* 1999;28(11):469.
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 117. Sparking from and ignition of damaged electrosurgical electrode cables [hazard report]. *Health Devices* 1998;27(8):301-3.
 118. Fire hazard created by the misuse of DuraPrep solution [hazard report]. *Health Devices* 1998;27(11):400-2.
 119. Trocars: Safety and Selection [Guidance article]. *Health Devices* 1998;27(11):376-399.
 120. Medical device problem reporting for the betterment of healthcare. *Health Devices* 1998;27(8):277-292.
 121. Lesions and shocks during iontophoresis [hazard]. *Health Devices* Mar 1997;26(3):123-5.
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 123. Electrosurgical airway fires still a hot topic [Hazard Update]. *Health Devices* 1996; 25(7):260-2.
 124. Selecting fire extinguishers for the operating room [talk to the specialist]. *Health Devices* 1996;25(7):261, 263.
 125. Modified testing procedure for manual resuscitators to minimize the risk of barotrauma resulting from a malfunctioning exhalation valve [hazard report]. *Health Devices* 1995;24(11):476-7.
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 129. Final Report: Medical Device Reporting Under the SMDA: A Guide for Healthcare Facilities and Manufacturers. Plymouth Meeting (PA): ECRI; 1996.
 130. Damaged Allied Healthcare Products Gomco circumcision clamp. *Health Devices* 1993 Mar; 22(3):154-5.

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132. Special Report: Medical Device Reporting Under the SMDA: A Guide for Healthcare Facilities. Plymouth Meeting (PA): ECRI; 1991.
133. Electric beds [Evaluation]. *Health Devices* 1986 Nov;15(11):299-318.

Articles, Proceedings, and Book Chapters in Other Publications

134. Bruley ME. Challenges in Preventing Electrical, Thermal, and Radiation Injuries. In: Sanchez JA, Barach P, Johnson JK, Jacobs, JP, editors. Surgical patient care: Improving safety, quality and value. Section III: Perioperative Quality and Patient Safety, Chapter 31. New York: Springer Science+Business Media; 2017. Abstract available from Internet: https://rd.springer.com/chapter/10.1007/978-3-319-44010-1_31.
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140. Henriksen K, Oppenheimer C, Leape LL, Hamilton K, Bates DW, Sheridan S, Bruley ME, Gaba DM, Wears RL, Schyve PM. Envisioning Patient Safety in the Year 2025: Eight Perspectives. In: Henriksen K, Battles JB, Keyes MA, Grady ML, editors. *Advances in patient safety: New directions and alternative approaches*. Vol. 1, Assessment. AHRQ Publication No. 08-0034-1. Rockville, MD: Agency for Healthcare Research and Quality; August 2008. [cited 2008 Sep 25]. Available from Internet: http://www.ahrq.gov/downloads/pub/advances2/vol1/Advances-Henriksen_104.pdf.
141. Bruley ME. Head and neck surgical fires. In: Eisele DW, Smith RV eds. *Complications of Head and Neck Surgery, 2nd Edition*. Philadelphia: Mosby (an imprint of Elsevier), 2009.
142. Bruley ME. Forensic engineering analysis of medical device accidents. *J Nat Acad Forensic Engineers* 2007 Jun;24(1):23-47.
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