

- Nov. 14th, 2003 Speaker, Life Star Emergency Care Symposium, Topeka KS. "Airway Theater: Practical Emergency Airway Management." "Skydiving, RSI and Patient Safety in Emergency Airway Management."
- Nov. 12th, 2003 Grand Rounds Presenter, Emergency Medicine Department, Presbyterian Hospital, Philadelphia PA. "Laryngoscopy Strategy and Practical Emergency Airway Management."
- October 23rd, 2003 Speaker, Great Lakes EMS Symposium, Lake Geneva WI. "Airway Theater: Practical Emergency Airway Management."
- October 17, 2003 Speaker, Chain of Survival Conference, Calgary Alberta. "Airway Theater: Practical Emergency Airway Management," "Respiratory Distress in the Elderly," and "High Altitude Illness."
- Sept. 11th, 2003 Cadaver workshop coordinator for Penn Star Flight Crew. Intubation and airway management lab, University of Pennsylvania Dept. of Anatomy, Philadelphia PA.
- Sept. 10th, 2003 Speaker, Penn Star Annual CME Program, Plymouth Meeting PA. "A Practical Approach to the Emergency Airway."
- Sept. 3rd, 2003 Speaker, Institute of Cruise Ship Medicine Conference, Sponsored by Carnival Cruise Lines, Miami FL. "A Practical Approach to the Emergency Airway."
- Sept. 2nd, 2003 Grand Rounds Presenter, Division of Trauma Surgery, Hospital of the University of Pennsylvania, "The Trauma Airway."
- August 13, 2003 Speaker, Rhode Island Chapter American College of Emergency Physicians Conference, "Ocean View Update: Emergency Medicine 2003," Newport RI. "Laryngoscopy Strategy and Practical Emergency Airway Management."
- July 30th, 2003 Visiting Professor, University of Maryland Emergency Medicine Residency Program, Baltimore Maryland. "Airway Algorithms, RSI and Patient Safety in Emergency Airway Management," and "Laryngoscopy Strategy and Techniques."
- July 11th, 2003 Grand Rounds Speaker, Emergency Medicine, Hackensack University Hospital, Hackensack NJ. "Practical Emergency Airway Management."
- June 3rd, 2003 Speaker, Westchester County Medical Center "Roadside to Bedside" Conference, Westchester NY. "Airway Theater: Practical Emergency Airway Management," and "Rescue Ventilation."
- June 2nd, 2003 Grand Rounds Speaker, Division of Pediatric Emergency Medicine, Children's Hospital of Philadelphia. "Practical Emergency Airway Management."
- May 22nd, 2003 Grand Rounds Speaker, Department of Anesthesiology and Critical Care Medicine, Children's Hospital of Philadelphia. "Laryngoscopy Imaging and Research and Practical Emergency Airway Management."

- May 10th, June 7th, Speaker, Philadelphia Fire Department Annual CME Program for Paramedics, Philadelphia Fire Department. "First Pass Laryngoscopy Success and Secrets of Nasotracheal Intubation."
- April 15th, 2003 Speaker, National Park Service Educational Conference on Airway Management, Grand Canyon National Park AZ. "Airway Theater: Practical Emergency Airway Management."
- April 12-13, 2003 General Session Speaker and Lecturer, Colorado Symposium on Emergency Care, Telluride CO. "Airway Theater: Practical Emergency Airway Management," and Hands-on Laryngoscopy Workshop.
- April 9th, 2003 Speaker, Children's Hospital of Philadelphia Critical Care Conference. "Practical Emergency Airway Management."
- March 28th, 2003 Speaker, EMS Update 2003, sponsored by Emergency Medical Services Institute, Seven Springs Resort, Champion PA. "Airway Theater: Practical Emergency Airway Management," and "Nasal Intubation."
- March 21, 2003 Speaker, EMS-Today 2003 Conference, Philadelphia. "Alternative Airways," and "Airway Management and Ventilation."
- March 20, 2003 Course director, Pre-conference workshops (morning and afternoon sessions) "Practical Emergency Airway Management," EMS-Today, Philadelphia.
- Feb. 20th, 2003 Course director, Pre-conference workshop "Practical Emergency Airway Management," American Academy of Emergency Medicine Annual Scientific Assembly, New Orleans.
- November 6th, 2002 Grand Rounds Speaker, Newark Beth Israel Emergency Medicine Residency, Newark NJ. "Airway Theater: A Practical Approach to the Emergency Airway."
- Oct. 26-27th 2002 Speaker, Whatcom County Prehospital Medicine Conference. "A Practical Approach to the Emergency Airway," and "Through the Nose: Everything You Wanted to Know about Nasal Intubation."
- October 4th, 2002 Speaker, Trauma Trends 2000 Conference, sponsored by Heartland Health Services, St. Joseph MO. "A Practical Approach to the Emergency Airway."
- October 3rd, 2002 Grand Rounds Speaker, Lehigh Valley Hospital and St. Luke's Hospital Combined Emergency Medicine Grand Rounds Program, Muhlenberg Hospital Center, Allentown PA. "Airway Theater: A Practical Approach to the Emergency Airway."
- Sept. 27th, 2002 Keynote speaker, Tucson Trauma Conference, Tucson AZ. "A Practical Approach to the Trauma Airway."
- Sept. 23rd, 2002 Speaker, Pulmonary and Critical Care Medicine Lecture Series, Hospital of the University of Pennsylvania. "Airway Theater: A Practical Approach to the Emergency Airway."
- Sept. 20th, 2002 General Session Speaker, Emergency Nurses Association Annual Meeting, New Orleans LA. "Airway Theater: A Practical Approach to the Emergency Airway."

- August 16th, 2002 Grand Rounds Speaker, Brooke Army Medical Center, Fort Sam Houston TX. "Airway Theater: A Practical Approach to the Emergency Airway."
- August 15th, 2002 Guest lecturer, United States Army Combat Medic Training Division, 91 Whiskey, Fort Sam Houston TX. "Airway Theater: A Practical Approach to the Emergency Airway,"
- August 7th, 2002 Speaker, Institute of Cruise Ship Medicine Conference, Sponsored by Carnival Cruise Lines, Miami FL. "Airway Theater: A Practical Approach to the Emergency Airway," and "Adjuncts to Intubation: RSI, Drugs, & Rescue Ventilation."
- July 25th, 2002 Speaker, New Mexico State EMS Conference, Albuquerque NM. "Respiratory distress in the elderly" and "Airway Theater: A Practical Approach to the Emergency Airway."
- July 24th, 2002 Grand Rounds Speaker, University of New Mexico Department of Emergency Medicine, Albuquerque NM. "A Practical Approach to the Emergency Airway."
- June 1st, 2002 Speaker, 2002 Peoria Regional EMS Conference, Peoria Civic Center, Peoria IL. "Airway Theater: A Practical Approach to the Emergency Airway," and Hands-on Laryngoscopy Workshop.
- May 16-18th, 2002 Speaker, Symposium Medicus, Spring Emergency Medicine Conference, Port Lucaya, Grand Bahama Island, Bahamas. "Airway Theater: A Practical Approach to the Emergency Airway." "Selection of Difficult Airway Devices in the ED." "Thoracolumbar Spine: Pathology, Radiographic Interpretation, and ED Management." "Altitude Illness."
- May 8th, 2002 Speaker, Jacobi Medical Center 4th Annual Trauma Symposium, Bronx, NY. "A Practical Approach to the Trauma Airway."
- April 28th, 2002 Speaker, Street Level Airway Management Conference (SLAM 2002), Dallas TX. Sponsored by the Airway Education and Research Foundation and the International Trauma Anesthesia and Critical Care Society. "Airway Theater: A Practical Approach to the Emergency Airway."
- April 27th, 2002 Speaker, New Mexico Region III EMS Conference, Ruidoso, NM. "Airway Theater: A Practical Approach to the Emergency Airway," "New ACLS Guidelines for Ventilation and Airway Management."
- April 25-26, 2002 Speaker, 21st Annual Colorado Symposium on Emergency Care, Durango CO. "Airway Theater," "Alternative Airways."
- April 10th, 2002 Speaker, Grand Rounds, Bellevue Hospital/New York University Medical Center, Emergency Medicine Residency, New York City. "A Practical Approach to Difficult Airway Management for the ED Physician."
- April 3rd, 4th 2002 Speaker, Georgia EMS Region 6 Changes 2002 Conference, Augusta Georgia. "Airway Theater: A Practical Approach to Emergency Airway Management," "Pharmacologic Adjuncts to Intubation," "Confirmation of Tracheal Tube Placement."
- March 22-23, 2002 Speaker, Connecticut 6th Annual EMS Symposium, Cromwell CT. "Airway Theater: A Practical Approach to Emergency Airway

- Management," "Pharmacologic Adjuncts to Intubation,"
"Alternative Airways."
- March 14th, 2002 Course Director and keynote speaker, Emergency Airway Management Workshop, American Academy of Emergency Medicine Annual Conference, San Francisco. "A Practical Approach to Difficult Airway Management for the ED Physician."
- March 9th, 2002 Speaker, Philadelphia Regional Emergency Medicine Medical Student Conference, Philadelphia College of Osteopathic Medicine, Philadelphia. "Airway Theater."
- March 1st, 2002 Speaker, South Carolina EMS Symposium, Myrtle Beach. "A Practical Approach to Emergency Airway Management" and "New ACLS guidelines for airway management and ventilation."
- February 19th, 2002 Speaker, Grand Rounds, Department of Emergency Medicine, North Shore University Hospital, Mineola NY. "A Practical Approach to Difficult Airway Management for the ED Physician."
- January 15th, 2002 Speaker, Grand Rounds, Department of Emergency Medicine, Mayo Clinic, Rochester Minnesota. "A Practical Approach to Difficult Airway Management for the ED Physician."
- January 14th, 2002 Speaker, Grand Rounds, Department of Anesthesiology, Mayo Clinic, Rochester Minnesota. "A New Look at Direct Laryngoscopy."
- January 13, 2002 Speaker and Panelist, International Meeting on Medical Simulation, sponsored by the Society for Technology in Anesthesia, Santa Clara California. "Direct Laryngoscopy Imaging; Training, Research, and Virtual Reality Applications."
- January 8th, 2002 Speaker, Grand Rounds, Hospital of the University of Pennsylvania, Department of Emergency Medicine. "A Practical Approach to Difficult Airway Management for the ED Physician."
- December 13th, 2001 Speaker, Johnson County Community College and Johnson County EMS-Medical Action CME Conference, Overland Park, Kansas. "A Practical Approach to Emergency Airway Management."
- December 11th, 2001 Speaker, Springfield Hospital and Crozer-Chester Hospital Paramedic Refresher, Springfield Fire Department, Springfield PA. "A Practical Approach to Emergency Airway Management."
- Nov. 28th, 2001 Speaker, Annual Paramedic CME Conference, North Lake Tahoe Fire Protection District, Lake Tahoe Nevada. "A Practical Approach to Emergency Airway Management," "New ACLS Airway Management and Ventilation," and "Alternative Airways."
- November 16th 2001 Speaker, Grand Rounds, Allegheny Hospital Department of Emergency Medicine, Pittsburgh PA. "A Practical Approach to Emergency Airway Management."
- Nov. 10th, 2001 Speaker, Virginia State EMS Conference, Norfolk VA. "A Practical Approach to Emergency Airway Management," "New ACLS Airway Management and Ventilation," and "Alternative Airways."

- November 7th, 2001 Speaker, New Jersey ACEP Residents' Conference, New Brunswick New Jersey. "Airway Theater: A Practical Approach to Emergency Airway Management".
- Oct. 16-17, 2001 Speaker, American College of Emergency Physicians, Scientific Assembly, Chicago IL. "Predicting and Managing the Difficult Airway," "The Trauma Airway," and "Acute Airway Obstruction."
- October 13th, 2001 Speaker, Eastern Pennsylvania EMS Council's 7th Pocono EMS Conference, Pocono Manor PA. "Airway Theater: A Practical Approach to Emergency Airway Management".
- October 6th, 2001 Speaker, Guthrie Health Systems "Concepts in Trauma 2001" EMS Symposium, Owego New York. "Airway Theater: A Practical Approach to Emergency Airway Management," and "Alternative Airways."
- Sept. 29th, 2001 Speaker, Miami Valley Hospital EMS/Trauma Symposium, Dayton OH. "Airway Theater: A Practical Approach to Emergency Airway Management," and "New ACLS Airway Management and Ventilation."
- Sept. 4th, 2001 Speaker, Grand Rounds, Department of Emergency Medicine, York Hospital, York PA. "A Practical Approach to Emergency Airway Management."
- August 25th, 2001 Speaker, South Plains EMS Conference, Lubbock TX. "Airway Theater: A Practical Approach to Emergency Airway Management," and "Alternative Airways."
- August 16th, 2001 Speaker, Georgia State EMS Conference, Jekyll Island. "Airway Theater: A Practical Approach to Emergency Airway Management," and "Alternative Airways."
- July 21st, 2001 Speaker, 2001 Clinical Conference on Out-of-Hospital Emergency Care (ClinCon), Florida Emergency Medicine Foundation, Orlando, FL. "Airway Theater: A Practical Approach to Emergency Airway Management."
- July 10th, 2001 Speaker, Colonie EMS Conference, Town of Colonie Public Safety Center, Colonie NY. "Airway Theater: A Practical Approach to Emergency Airway Management."
- July 9th, 2001 Speaker, New York Chapter American College of Emergency Physicians Annual Meeting, Bolton's Landing, NY. "Thoracolumbar Spine: Pathology, Radiographic Interpretation, and ED Management." Workshop Course Director: Airway Management.
- May 30th, 2001 Speaker, Institute of Cruise Ship Medicine Conference, Sponsored by Carnival Cruise Lines, Miami FL. "Airway Theater: A Practical Approach to Emergency Airway Management," "Pharmacologic Adjuncts to Intubation."
- May 18th, 2001 Speaker, Southwestern Idaho EMS Conference, Boise State University, Boise, Idaho. "Airway Theater: A Practical Approach to Emergency Airway Management," and "Alternative Airways."

- May 12th, 2001 Speaker, Philadelphia Fire Academy Paramedic Refresher/CME seminar, "A Practical Approach to Emergency Airway Management." Philadelphia Fire Academy, Philadelphia PA.
- April 28-29, 2001 Speaker, Street Level Airway Management Conference (SLAM 2001), Dallas TX. Sponsored by the Airway Education and Research Foundation and the International Trauma Anesthesia and Critical Care Society. "Airway Theater" and laryngoscopy workshops.
- March 14-15, 2001 Speaker and Pre-Conference Workshop director/speaker, EMS Today, Baltimore MD. "New ACLS Airway Management and Ventilation" and "Airway Management 2001" workshop.
- March 2nd, 2001 Speaker, Albany Medical Center Emergency Medicine Winter Symposium, Killington VT. "Airway Management/Airway Theater," "Adjuncts for the Difficult Airway," "Demonstration of Airway Adjuncts."
- Feb. 25th, 2001 Speaker, American Academy of Emergency Medicine Scientific Assembly, Orlando FL. "Difficult Airway Management: A Practical Approach."
- Feb. 22nd, 2001 Course Director and Presenter, "Airway Management Course" at the American Academy of Emergency Medicine Winter Symposium, Orlando FL.
- Dec. 6-7th, 2000 Speaker, Milwaukee County Paramedic Refresher course, Milwaukee WI. "Airway Theater."
- Nov. 10th, 2000 Speaker, Alaska State EMS Symposium 2000, Anchorage Alaska. "Airway Theater," "Alternative Airways," and "Recognition and Management of the Difficult Airway."
- Oct. 28th, 2000 Speaker, Whatcom County Emergency Medical Services Council, 19th Annual Conference on Prehospital Medicine, Bellingham WA. "Airway Theater," and "Alternative Airways."
- Oct. 23-26th, 2000 Speaker, American College of Emergency Physicians Scientific Assembly, Philadelphia PA. "Recognition and Management of the Difficult Airway," "Acute Airway Obstruction," and "The Trauma Airway."
- Sept. 15-16, 2000 Speaker, Street Level Airway Management Conference (SLAM 2000), Dallas TX. Sponsored by the Airway Education and Research Foundation and the International Trauma Anesthesia and Critical Care Society. "Airway Theater" and laryngoscopy workshops.
- July 9-12th, 2000 Speaker, New York Chapter American College of Emergency Physicians Annual Meeting, Bolton's Landing, NY. "Airway Theater," "Alternative Devices in Emergency Airway Management."
- May 5th, 2000 Speaker, 8th Annual International Conference on Emergency Medicine, Boston MA [sponsored by the International Federation of Emergency Medicine, hosted by American College of Emergency Physicians]. "Teaching Procedures; The Airway Model."

- April 28-29, 2000 Speaker, New Mexico Region Three EMS Conference, Ruidoso, NM. "Airway Theater," "Pharmacologic Adjuncts to Intubation," "Confirmation of Tracheal Tube Placement."
- April 26-27, 2000 Speaker, 20th Annual Colorado Symposium on Emergency Care, Durango CO. "Airway Theater," "Alternative Airways."
- April 8th, 2000 Speaker, St. Rita's Hospital Trauma Symposium, Lima, Ohio. "Airway Theater: A New Look at Direct Laryngoscopy and Intubation."
- April 5th, 2000 Speaker, American College of Emergency Physicians Spring Convention, "Emergency Medicine Connection," New York Marriott Marquis. "Airway Theater: A New Look at Direct Laryngoscopy and Intubation."
- Mar.23rd-24th,2000 Speaker, EMS Today Conference, Orlando FL. "Airway Theater," "Alternative Airways."
- Feb. 17th, 2000 Speaker, Airway management seminar, American Academy of Emergency Medicine Scientific Assembly, San Antonio, Texas. "Airway Theater: A New Look at Direct Laryngoscopy and Intubation."
- Nov.18th-20th, 1999 General Session and Break-out Sessions Speaker, 23rd Annual Prehospital Emergency Care and Crisis Intervention, Salt Lake City, Utah. Lectures: "Airway Theater," "Confirmation of Tracheal Tube Placement," and "Pharmacologic Adjuncts to Intubation."
- November 5th, 1999 Grand Rounds Presenter, NYU/Bellevue Emergency Medicine Residency Program. "A New Look at Direct Laryngoscopy and Intubation."
- November 4th, 1999 Grand Rounds/Visiting Professor Lecture, State University of New York at Stony Brook, Department of Emergency Medicine: "A New Look at Direct Laryngoscopy and Intubation."
- July 9th, 1999 Speaker, 1999 Clinical Conference on Out-of-Hospital Emergency Care, Florida Emergency Medicine Foundation, Orlando, FL. "Airway Theater."
- March 25-8, 1999 Speaker, EMS Today, national EMT conference sponsored by Journal of Emergency Medical Services, Denver, CO. "Airway Theater."
- January 27, 1999 Grand Rounds Presenter, Morristown Memorial Hospital, Emergency Medicine Residency Program, Morristown, NJ. "A New Look at Direct Laryngoscopy and Intubation."
- Nov.14, 1998 Lecturer Airway Management, Philadelphia Fire Department Paramedic CME course
- Oct. 17, 1998 Lecturer Airway Management, Philadelphia Fire Department Paramedic CME course
- October 2, 1998 Grand Rounds Presenter, UMDNJ Emergency Medicine Residency Program, Cooper Hospital, Camden, NJ
- Sept. 17-9 1998 Speaker, Workshop Presenter, Society of Airway Management Annual Meeting, Boston

August 26, 1998 Grand Rounds Presenter, Mount Sinai Emergency Medicine Residency Program, New York

Feb. 10, 1998 Speaker, Advanced Airway Conference, Medical College of Central Georgia, Macon, GA

January 22, 1998 Grand Rounds Presenter, Temple University Hospital, Emergency Medicine Residency Program

June 9, 1997 Grand Rounds Presenter, Emergency Medicine Department, Johns Hopkins Medical Center (Bayview Campus)

March 20, 1997 Speaker, 1997 Connecticut State EMS Conference, "A Challenged System," Berlin, CT

November 23, 1996 Faculty and workshop leader, 2nd Annual Allegheny University of Health Sciences, Dept. of Anesthesiology, Airway Management Conference, Philadelphia

June 8, 1996 Speaker, 16th Annual Bellevue/New York University Medical Center Emergency Medicine Seminar

June 12, 1996 Grand Rounds Presenter, Emergency Medicine Department, Beth Israel Medical Center, New York

May 17, 1996 Speaker, Emergency Cardiac Care Update, 19th Biennial International Emergency Cardiac Care Update, Montreal

February 7, 1996 Grand Rounds Presenter, Emergency Medicine Department, The Brooklyn Hospital, Brooklyn NY

Jan. 30, 1996 Grand Rounds Presenter, Emergency Medicine Department, Hospital of the University of Pennsylvania

Oct. 11, 1995 Grand Rounds Presenter, Emergency Medicine Department, Bellevue Hospital Center, New York

August 14, 1995 Speaker and Panelist, "Frontline Healthcare Workers: National Conference on Prevention of Sharps Injuries and Bloodborne Exposures." Sponsored by the CDC, Atlanta

August 2, 1995 Grand Rounds Presenter, Emergency Medicine Department, Bronx Municipal Hospital Center

June 6-9, 1995 Speaker and Panelist, 15th Annual Bellevue/New York University Medical Center Emergency Medicine Seminar

April 15, 1995 Grand Rounds Presenter, Emergency Medicine Department, Beth Israel Medical Center, New York

March 18, 1995 Speaker and Instructor, Vanderbilt University Medical Center, Emergency Airway Management Course

Feb. 15, 1995 Grand Rounds Presenter, Emergency Medicine Department, Bellevue Hospital Center, New York

Sept. 23-5, 1994 Panelist and Exhibitor, Johns Hopkins Medical Institutions Airway Management Conference

June 8-10, 1994 Speaker, 14th Annual Bellevue/NYU Emergency Medicine Seminar

Bibliography:

Research and peer reviewed publications:

1. Brindley PG, Beed M, Law JA, Hung O, Levitan R, Murphy MF, Duggan LV. Airway management outside the operating room: how to better prepare. *Can J Anaesth*. 2017 Feb 6.
2. Levitan RM. The Cric-Key™ and Cric-Knife™: A Combined Tube-Introducer and Scalpel-Hook Open Cricothyrotomy System *Journal of Special Operations Medicine* Volume 14, Edition 1/Spring 2014 pp. 45-49.
3. Weingart SD, Levitan RM. Preoxygenation and Prevention of Desaturation During Emergency Airway Management *Ann Emerg Med*. 2012 Mar;59(3):165-75.
4. Levitan RM, Heitz JW, Sweeney M, Cooper RM. The Complexities of Tracheal Intubation With Direct Laryngoscopy and Alternative Intubation Devices. *Ann Emerg Med*. 2011; 57:240-7.
5. Levitan RM, Vanderbeek P, Kuhfahl K. Performance failure of a colorimetric end-tidal CO2 detector. *Ann Emerg Med*. 2009; 54:636-7.
6. Levitan RM, Bortle CD, Snyder TA, Nitsch DA, Pisaturo JT, Butler KH. Use of a battery-operated needle driver for intraosseous access by novice users: skill acquisition with cadavers. *Ann Emerg Med*. 2009; 54:692-4.
7. Levitan RM, Kelly JJ, Kinkle WC, Fasano C. Light intensity of curved laryngoscope blades in Philadelphia emergency departments. *Ann Emerg Med*. 2007 Sep;50:253-7.
8. Levitan RM. The mystique of direct laryngoscopy. *Respir Care*. 2007; 52: 21-3.
9. Levitan RM, Pisaturo JT, Kinkle WC, Butler K, Everett WW. Stylet bend angles and tracheal tube passage using a straight-to-cuff shape. *Acad Emerg Med*, 2006; 13: 1255-8.
10. Levitan RM, Sapre N, Chudnofsky C. Emergency airway management in a morbidly obese, non-cooperative, rapidly deteriorating patient. *Am J Emerg Med*, 2006; 24: 894-6.
11. Levitan RM, Everett WW, Kinkle WC, Levin WJ. Laryngeal View During Laryngoscopy: A Randomized Trial Comparing Cricoid Pressure, BURP, and Bimanual Laryngoscopy. *Ann Emerg Med*. 2006; 47: 548-55.
12. Levitan RM. Design Rationale and Intended Use of A Short Optical Stylet For Routine Fiberoptic Augmentation of Emergency Laryngoscopy. *Am J Emerg Med*. 2006; 24: 490-5.
13. Levitan RM, Kinkle WC. Initial anatomic investigations of the I-gel airway: a novel supraglottic airway without inflatable cuff. *Anaesthesia*. 2005; 60: 1022-6.
14. Levitan R. The importance of a laryngoscopy strategy and optimal conditions in emergency intubation [Letter]. *Anesth Analg*. 2005;100: 899-900.
15. Levitan R. Safety of succinylcholine in myasthenia gravis. [Letter] *Ann Emerg Med*. 2005 Feb; 45:225-6.

16. Collins JS, Lemmens HJ, Brodsky JB, Brock-Utne JG, Levitan RM. Laryngoscopy and morbid obesity: a comparison of the "sniff" and "ramped" positions. *Obes Surg*. 2004;14: 1171-5.
17. Levitan RM, Everett WW, Ochroch AE. Limitations of difficult airway prediction in patients intubated in the emergency department. *Ann Emerg Med*. 2004;44:307-13.
18. Levitan RM, Frass M. The Combitube as Rescue Device: Recommended Use of the SA (Small Adult) Size for all Patients 6 Feet or Shorter. [Letter] *Annals Emerg Med*. 2004; 44: 92.
19. Levitan RM, Rosenblatt B, Meiner EM, Reilly PM, Hollander JE. Alternating Day EM and Anesthesia Resident Responsibility for Management of the Trauma Airway: A Study of Laryngoscopy Performance and Intubation Success. *Annals Emerg Med*. 2004 Jan;43(1):48-53.
20. Levitan RM. Patient safety in emergency airway management and rapid sequence intubation: metaphorical lessons from skydiving. *Ann Emerg Med*. 2003;42: 81-7.
21. Brodsky JB, Lemmens HJ, Brock-Utne JG, Saidman LJ, Levitan R. Anesthetic considerations for bariatric surgery: proper positioning is important for laryngoscopy. [letter, response]. *Anesth Analg*. 2003;96:1841-2; author reply 1842.
22. Ho AM, Chung DC, Levitan RM. Use of external laryngeal manipulation to facilitate laryngoscopy [letter, response]. *Ann Emerg Med* 2003; 41: 587-588.
23. Levitan RM, Mechem CC, Ochroch EA, Shofer FS, Hollander JE. Head Elevated Laryngoscopy Positioning (HELP): Improving laryngeal exposure during laryngoscopy by increasing head elevation. *Ann Emerg Med* 2003;41: 322-30.
24. Levitan RM, Mickler T, Hollander JE. Bimanual laryngoscopy: a videographic study of external laryngeal manipulation by novice intubators. *Ann Emerg Med* 2002;40:30-37.
25. Levitan RM. [Book review] Airway Management in the Critically Ill by RB Vukmir. Parthenon Publishing Group, Pearl River NY, 2001. *Respiratory Care*, August 2002.
26. Stewart GM, Kessel G, Levitan RM. Comparing the Articulating Laryngoscope and External Laryngeal Manipulation [letter, response]. *Anesth Analg* 2001 93: 1078-1079.
27. Ochroch AE, Levitan RM. A videographic analysis of laryngeal exposure comparing the McCoy levering laryngoscope blade and external laryngeal manipulation. *Anesthesia and Analgesia*, 2001; 92:267-70.
28. Levitan RM, Goldman TS, Bryan DA, Shofer F, Herlich A. Training with video imaging improves the initial success rates of paramedic trainees in an OR setting. *Annals of Emergency Medicine*, 2001, 34: 46-50.
29. Levitan RM, Ochroch AE. Airway management and direct laryngoscopy: A review and update. *Critical Care Clinics of North America*, 2000; 16: 373-388.
30. Levitan RM, Cook-Sather S, Ochroch AE. Demystifying direct laryngoscopy and intubation. *Hospital Physician*, 2000; 36: 47-56, 59.
31. Levitan RM, Ochroch AE, Hollander J. POGO Score [letter]. *Can J Anesth*, 2000; 47: 477-9.

32. Levitan RM, Ochroch AE, Stuart S, Hollander JE. Use of the intubating laryngeal mask airway by medical and non-medical personnel. *Am J Emerg Med* 2000; 18:12-16.
33. Levitan RM. Grading systems for direct laryngoscopy [letter]. *Anaesthesia*, 2000; 55: 291-292.
34. Levitan RM, Ochroch AE, Hollander JE. A grading system for direct laryngoscopy [letter]. *Anaesthesia* 1999; 54: 1009-10.
35. Ochroch AE, Kush S, Stuart S, Hollander JE, Levitan RM. Assessment of laryngeal view in direct laryngoscopy: The percentage of glottic opening (POGO) score compared to Cormack and Lehane grading. *Can J Anesth*, 46; 987-90, 1999.
36. Levitan RM, Kush S, Hollander JE. Devices for difficult airway management in academic emergency departments: Results of a national survey. *Ann Emerg Med*, 33:694-698, 1999.
37. Levitan RM, Ochroch AE. Explaining the variable effect on laryngeal view obtained with the McCoy laryngoscope [letter]. *Anaesthesia*, 54: 599-601, 1999.
38. Levitan, RM. Direct laryngoscopy imaging: Teaching and research applications. Educational Synopses in Anesthesiology and Critical Care Medicine (June, 1998) [accessed 8/20/03]: The On-line Anesthesia Journal, <http://www.gasnet.org/esia/1998/june/samart.html>. Reprinted: *Am J Anesthesiology*, 26:39-42, 1999.
39. Levitan RM, Ochroch AE, Hollander J, et. al. Assessment of airway visualization: Validation of the percent of glottic opening (POGO) scale." *Acad Emerg Med*, 5: 919-23, 1998.
40. Levitan RM, Ochroch AE, Higgins MS. Contrary to popular belief and traditional instruction, the larynx is sighted one eye at a time during direct laryngoscopy. [letter] *Acad Emerg Med*, 5:844-6, 1998.
41. Levitan RM. A new tool for teaching and supervising direct laryngoscopy. *Acad Emerg Med*, 3: 79-81, 1996.
42. Levitan RM. Occult cervical spine fracture in a wilderness setting. *Journal Wilderness Medicine* 4:182-6, 1994.

Abstracts:

1. Levitan RM, Radford S, O'Malley G, Giraldo P, Cadar S. Verma M. Release of Cricoid Pressure Improves Laryngeal View and Success Rates of Intubation. Society of Academic Emergency Medicine meeting, New Orleans LA, May 17th, 2009.
2. Levitan RM, Kinkle WC. Intubation Through the Cook ILA With and Without Fiberoptic Guidance [Abstract]. 2006 Society for Airway Management Annual Meeting, La Jolla CA.
3. Levitan RM, Dominici P, O'Malley G. Cricoid Pressure Impedes First Pass Intubation Success And Contributes To Difficult Laryngoscopy In Emergency Airways. [Abstract], SAEM Annual Meeting, San Francisco, May 18-21, 2006.
4. Levitan RM, Dominici P, Kelly JJ, Reilly K. Feasibility Of An Inflatable Ramp For Positioning Obese Patients For Emergency Intubation. [Abstract], SAEM Annual Meeting, San Francisco, May 18-21, 2006.

5. Levitan RM, Dominici P, O'Malley G. Hypoxia During ED Intubation: Relationship To Repeat Laryngoscopy And Time To Intubation. [Abstract], SAEM Annual Meeting, San Francisco, May 18-21, 2006.
6. Levitan RM, Kelly JJ, Kinkle WC, Fasano C. Design And Brightness Of Curved Laryngoscope Blades In Philadelphia Emergency Departments. [Abstract], SAEM Annual Meeting, San Francisco, May 18-21, 2006.
7. Levitan RM, Pisaturo J, Kinkle WC, Butler K, Levin W. The effect of stylet bend angle on tracheal tube passage using a straight-to-cuff stylet shape [Abstract]. *Ann Emerg Med* 2005; 46: S5.
8. Levitan RM. A Novel Methodology for Teaching Direct Laryngoscopy. Innovations in Emergency Medicine Education presentation, Society for Academic Emergency Medicine Annual Meeting, New York City, May 22nd-25th, 2005.
9. Levitan RM, Kinkle WC, Levin W, Butler K. Pressing on the neck and laryngeal view at laryngoscopy: A comparative study of cricoid pressure, backward upward rightward pressure (BURP), and operator directed external laryngeal manipulation. [Abstract] *Acad Emerg Med* 2005; 12: 92 (A249).
10. Levin WJ, Butler KH, Yashwant G Chathampally, Kinkle WC, Levitan RM. Comparison of a New Short Optical Stylet and the Bougie for Difficult Intubations. [Abstract] *Acad Emerg Med* 2005; 12: 40 (A097).
11. Levitan RM, Kinkle WC. Initial Anatomic Investigations of the Nasir Laryngeal Airway (NLA) - A Novel Supraglottic Airway without an Inflatable Cuff. [Abstract, Poster and Oral Presentation] Difficult Airway Society of Great Britain and Ireland Meeting, Leicester United Kingdom. November 26th, 2004.
12. Levitan RM, Kinkle WC, Levin W. Performance of an Optical Intubation Stylet in Simulated Difficult Laryngoscopy. [Abstract] Presented September 10th-11th, 2004, Society for Airway Management Meeting, Chicago IL.
13. Kinkle WC, Levitan RM, Levin W. The Glidescope Video Laryngoscope In The Hands of Novice Users: Seeing The Larynx Does Not Correlate With Intubation Success [Abstract]. *Ann Emerg Med*. 2004; 44: S 119.
14. Levin WJ, Levitan RM, and Kinkle WC. Confirming the Location of Previously Placed Tracheal Tubes by Direct Laryngoscopy [Abstract]. *Acad Emerg Med* 2004 11: 491-492.
15. Levin WJ, Levitan RM, and Kinkle WC, Lopez GH, and Meletiche CM. Handheld Ultrasonography for the Localization of the Cricothyroid Membrane [Abstract]. *Acad Emerg Med* 2004; 11: 522.
16. Levin WJ, Levitan RM. A novel oral intubation technique with a short rhinolaryngoscope. [Abstract] *Ann Emerg Med*, 2003; 42, 4 (part 2): A234.
17. Levin WJ, Levitan RM. The Shikani optical stylet as an adjunct for intubation: A potential rescue technique for the difficult airway. [Abstract] *Ann Emerg Med*, 2003; 42, 4 (part 2) (A235).
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2. Levitan RM, Hagberg C. Upper Airway Retraction: New and Old Laryngoscope Blades. Chapter 24, in Benumof and Hagberg's *Airway Management*, 3rd edition. Elsevier, Philadelphia, 2013.
3. Levitan RM, Kovacs G. "Direct Laryngoscopy", in Hung & Murphy's *Management of the Difficult and Failed Airway*, 2e, McGraw Hill, New York, 2012
4. Levitan RM. "The Role of Optical Stylets," in Ovassapian & Glick's *The Difficult Airway: Tools and Techniques for Clinical Management*, Springer, publication pending, expected 2013.
5. Bortle C, Levitan RM. "Respiratory Arrest" in *The Merck Manual of Diagnosis and Therapy*, continuously updated at www.merckmanuals.com, Merck & Co., Inc., Whitehouse Station, NJ and printed in *The Merck Manual of Diagnosis and Therapy*, 19th Edition, Merck Research Laboratories, Division of Merck & Co., Inc., Whitehouse Station, NJ, (Ch 224, pp. 2269-2278, Published August, 2011)
6. Levitan RM. Difficult intubation. In Dickinson ET, Stern AW., eds. *ALS case studies in emergency care*. Pearson Education, Inc. (Brady), Upper Saddle River NJ, 2004, pp. 71-77.
7. Contributing editor, *Pediatric Advanced Life Support* 2003, American Heart Association.
8. Levitan RM. Myths and realities: the "difficult airway" and alternative airway devices in the emergency setting. [editorial] *Acad Emerg Med*. 2001; 8:829-32.
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Books:

1. Levitan RM, The EMRA / Airway Cam Pocket Guide to Intubation. Emergency Medicine Residents Association, Dallas TX and Airway Cam Technologies, Inc. Wayne PA, 2015.
2. Levitan RM, Kinkle WC. The Airway Cam Pocket Guide to Intubation, 2nd Edition Airway Cam Technologies, Inc. Wayne PA, 2007.

3. Levitan RM. The Airway Cam Guide to Intubation and Practical Emergency Airway Management. Airway Cam Technologies, Inc. Wayne PA, 2004. Reviews: Burg DM, Donner N. *Acad Emerg Med* 2005; 12: 789-790. Doyle DJ. *Can J Anesth* 2005; 52: 4: 448. Southall J. *Ann Emerg Med* 2005; 46: 212-213. Wesley K. *J Emerg Med Services* 2005; 30: 111. Ovassapian A. *Anesth Analg* 2005; 101: 930.

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Alternative Media and non-peer reviewed journals:

1. Should Emergency Physicians Abandon Face-Mask Ventilation?
<http://www.acepnow.com/article/emergency-physicians-abandon-face-mask-ventilation/>
January 11, 2017.
2. Four Techniques for Handling the Omega-Shaped Epiglottis
<http://www.acepnow.com/article/four-techniques-handling-omega-shaped-epiglottis/>
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3. Tips for Using a Hyperangulated Video Laryngoscope
<http://www.acepnow.com/article/tips-for-using-a-hyperangulated-video-laryngoscope/>
4. Levitan RM. Timing resuscitation sequence intubation for critically ill patients. <http://www.acepnow.com/article/timing-resuscitation-sequence-intubation-for-critically-ill-patients/>August 20th, 2015.
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<http://www.acepnow.com/article/avoid-airway-catastrophes-extremes-minute-ventilation/>ACEP Now, January 20th, 2015.
6. Levitan RM. Tips for Handling the Bougie Airway Management Device.
<http://www.acepnow.com/article/tips-handling-bougie-airway-management-device/> . ACEP Now, September 14th, 2014.
7. Levitan RM, Asken M. Managing Stress In Crisis Critical to Performing Emergency Airway Management Techniques. <http://www.acepnow.com/article/managing-stress-crisis-critical-performing-emergency-airway-management-techniques/>. ACEP Now, June 10, 2014.
8. Levitan RM. How to Make the Incision, Insert the Tube in Cricothyrotomy.
<http://www.acepnow.com/article/make-incision-insert-tube-cricothyrotomy/>. ACEP Now, April 11, 2014.
9. Levitan R. Strategies for Maximizing O2 Delivery.
<http://www.epmonthly.com/features/current-features/strategies-for-maximizing-o2-delivery/>. EP Monthly, February 11, 2014.
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<http://www.acepnow.com/?s=cricothyrotomy>. ACEP Now, February 6, 2014.
11. Levitan R. The Neglected Orifice <http://www.epmonthly.com/features/current-features/the-neglected-orifice-/>. EP monthly, May 29, 2013.
12. Levitan R. Four Secrets to Video Laryngoscopy. December 12, 2012.
<http://www.epmonthly.com/features/current-features/four-secrets-to-video-laryngoscopy-/>
13. Levitan R. A Primer on the Surgical Airway. *EP Monthly*, August 5, 2012.
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14. Levitan R. Second Gen. Laryngeal Mask Airway (LMA): Is It Time For You to Upgrade? *EP Monthly*, December 22, 2011. Link:
<http://www.epmonthly.com/features/current-features/second-gen-laryngeal-mask-airway-lma-is-it-time-for-you-to-upgrade/>
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<http://www.epmonthly.com/subspecialties/technology/video--direct-laryngoscopy-/>

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20. Levitan R. Nasal Intubation. *Emergency Medicine Physicians Monthly*, aka *EP Monthly*, June 6, 2011. Link: <http://www.epmonthly.com/features/current-features/nasal-intubation/>
21. Levitan R. Avoiding Common Laryngoscopy Errors, Part II. *Emergency Medicine Physicians Monthly*, aka *EP Monthly*, April 7, 2011. Link: <http://www.epmonthly.com/features/current-features/avoiding-common-laryngoscopy-errors-part-ii/>
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24. Levitan R. NO DESAT! Nasal Oxygen During Efforts Securing A Tube. *Emergency Medicine Physicians Monthly*, aka *EP Monthly*, Dec. 9, 2010. Link: <http://www.epmonthly.com/features/current-features/no-desat-/>
25. Levitan RM, Kinkle WC. The Airway Cam Video Series, Volumes 1-4 on DVD. Airway Cam Technologies, Inc. Wayne PA, 2004. Reviews: *Canadian Journal of Anesthesia*; 2005; 52: 448. *J Emerg Med Services*, 2005; 30: 111.
26. Levitan RM, Kinkle WC. Airway Cam Video Series, Volume 4. Secrets of Curved Blade Laryngoscopy. Educational videotape, 28 minutes, published by Airway Cam Technologies, Inc., Wayne, PA. Released 10/2003. Review: *Canadian Journal of Anesthesia*; 2004; 51: 524-525.
27. Levitan RM, Ochroch AE. Airway Cam Video Series, Volume 3: Advanced airway imaging and laryngoscopy techniques. Educational videotape, 28 minutes, published by Airway Cam Technologies, Inc., Wayne, PA. Released 3/00. Reviews: *British Journal of Anaesthesia*; 2000; 85: 328. *J Emergency Medical Services*, June 2000. *Canadian Journal of Anesthesia*; 2000; 47:925. *Academic Emergency Medicine*; 2001, 8: 99. *Respiratory Care* 2002; 47: 1343-4.
28. Levitan RM, Sather SDC. Airway Cam Video Series Volume 2: Pediatric Intubation. Educational videotape, 28 minutes, published by Airway Cam

Technologies, Inc., Wayne, PA. Released 1/99. Reviewed in *Pediatric Emergency Care*, 2000, 16: 350. *Annals of Emergency Medicine*, 1999, 34: 418-9. *Anesthesia and Analgesia*, 89, September, 1999. *Canadian Journal of Anesthesia*, 2000, 47: 827. Images from Volume 2 have been incorporated into several other instructional videotapes: Pediatric Education for Prehospital Providers (American Academy of Pediatrics, 2000), Pediatric Advanced Life Support Videotape (American Heart Association, 2001).

29. Levitan RM. Higgins MS, Blanks S, Badr A. Airway Cam Video Series, Volume 1: Orotracheal Intubation. Educational videotape, 26 minutes, published by Airway Cam Technologies, Inc., Wayne, PA. Released 12/1996. Reviews: *Annals of Emergency Medicine*, 1999; 34: 418-9. *Academic Emergency Medicine*, 1997; 4:130. *Canadian Journal of Anesthesia*, 1998; 45: 288. *Anesthesia and Analgesia*, 1998; 86: 921.

30. Levitan RM. Rescuing intubation: Simple techniques to improve airway visualization. *J Emerg Med Services*, 2001; 26:37-54.

31. Levitan RM. A new view on intubation training. *J Emerg Med Services*, 1998; 23:53-58.

32. Levitan RM. "Reducing pain during arterial blood drawing--minimizing patient movement," *Advances in Exposure Prevention*, 2:5, 1996.

33. Levitan RM. Defending your life: Technologies to make doctors' work safer. Committee of Interns and Residents, 30 minute video production, 1994.

34. Levitan RM. "Lowering blood-borne exposures: Engineering controls are key," *Committee of Interns and Residents News*, December 1992.

Patents and Device Development:

1. Universal Stylet for direct and video laryngoscopic intubation. Provisional patent submitted September, 2014.
2. Scalpel and tracheal hook for surgical airways, a.k.a, "Cric-Knife". Provisional patent, submitted December 2012. Device being manufactured by Engineered Medical Systems, Indianapolis, IN. US PTO Application: 14/198,650.
3. Introducer for surgical airways, a.k.a, "Cric-Key" World Intellectual Property Organization, Patent #: WO2014 160674 A1. Device being manufactured by Engineered Medical Systems, Indianapolis, IN.
4. Direct laryngoscopy video system, US Patent and Trademark Office #5973728, issued October 26, 1999.
5. Levitan Scope (optical stylet for augmenting direct laryngoscopy which I designed and developed with Clarus Medical, Minneapolis MN). Patents on this device are managed by Clarus Medical. (http://www.clarus-medical.com/airway-management/airway_levitan.htm)

Additional Activities:

Founder and President, Airway Cam Technologies, Inc. Company formed to develop and patent Airway Cam Direct Laryngoscopy Video System, and to market related educational materials. Airway Cam videotapes are used in approximately 4,000 hospitals and paramedic programs in the United States and 25 countries. 1996 to present.

Course director and primary lecturer, "Practical Emergency Airway Management," Baltimore MD, 2003-present. Airway management course designed for physicians, paramedics, and others involved with emergency airways. Day one involves didactic instruction; day two hands-on procedural training with airway devices in a fresh cadaver lab. The course is the largest fresh tissue airway management course in the world. 6 courses in 2003, seven courses per year 2004-2007; ten courses in 2008; 11 courses per year starting in 2009 - present. Courses co-sponsored (and CME provided) by American Academy of Emergency Medicine (2002-2005), Pennsylvania Chapter of the American College of Physicians (2006-2009), Jefferson Office of Continual Medical Education (2010 - present). Course co-sponsored by Department of Emergency Medicine Albert Einstein Medical Center (2006-2009) and Department of Emergency Medicine Thomas Jefferson University 2009-2013. Course sponsored and CME provided by the Center for Emergency Medical Education (Canton, OH), 2013-present.

Practical Emergency Airway Management Australia-cadaver courses in Sydney Australia, at Royal North Shore Hospital, Sydney Skills Centre. Begun August 2013, repeated March 2014, and May 2015, and August 2015.

Course Director, Australian Cadaveric Courses beginning in 2017, in Sydney (now repeated annually in January, University Technology Sydney) and Brisbane (now repeated annually in August, University of Queensland School of Medicine). Administered by Season Events (Larisse Neil). Dates of past courses: January 19-20, 2017 Brisbane Univ. Queensland; September 25-26, 2017, Sydney UTS; January 18-19, 2018, Sydney UTS; August 25-26, 2018, Brisbane Univ. Queensland; January 21-22, 2019, Sydney UTS; August 24-25, 2019, Brisbane Univ. Queensland.

Course Director, Yellowstone Advanced Airway Critical Care Course, Jackson Lake Lodge, Moran WY. May 25-30, 2014, and June 26-30th, 2014. Course sponsored and CME provided by the Center for Emergency Medical Education (Canton, OH). Repeated yearly in June, since 2015.

Course Co-Director, Acadia Emergency Medicine Conference, Hampton Inn, Bar Harbor ME. 4 day small group conference on airway management, procedural sedation, and pain management. Co-instructed with Reuben Strayer, MD. First course: September 20-23, 2019.

Course Director, New York Advanced Airway Critical Care Course, September 28, 29, 2014, Millenium Hilton Hotel, NYC. Course sponsored and CME provided by the Center for Emergency Medical Education (Canton, OH). Repeated September 2015, and September 2016.

Private courses for Industry: April 6th, 2011. Full-day Airway Management Cadaver Workshop for Teleflex sales, marketing, research and development personnel, Baltimore MD.

Private courses for Industry: May 30, 2012. Full-day Airway Management Cadaver Workshop for AMBU sales, marketing, research and development personnel, Baltimore MD.

Private courses for Industry: June 22, 2012. Full-day Airway Management Cadaver Workshop for Covidien sales, marketing, research and development personnel, Baltimore MD.

Articles about Direct Laryngoscopy Imaging System:

Levitan RM. A new tool for teaching and supervising direct laryngoscopy. *Acad Emerg Med*, 3: 79-81, 1996.

Levitan, RM. Direct laryngoscopy imaging: Teaching and research applications. Educational Synopses in Anesthesiology and Critical Care Medicine (June, 1998): The On-line Anesthesia Journal, <http://gasnet.med.yale.edu/esia/1998/june/samart.html>. Reprinted: *Am J Anesthesiology*, 26:39-42, 1999.

MacKenzie CF et al. "Head mounted video camera is a valuable tool for airway management training ." *Anesthesiology*. 89 (A3) A 1137, 1999.

Emergency Medicine News, November 1999: "Microminiature camera aids intubation dilemma."

MacKenzie CF et al. "Strengths and weaknesses of airway teleconsultation." *Journal of Clinical Monitoring*, 14: 526-7, 1998.

Higgins MS, Deshpande JK, Badr A. New video system improves teaching of direct laryngoscopy. *Anesthesiology*, 1996 Apr;84(4):1010-1.

Contributor, Airway Cam video footage, Pediatric Emergency Airway Management for the Pre-Hospital Professional DVD, Gausche-Hill M, Henderson DP, Goodrich SM, Koenig W, Doil-Pore P. Jones and Bartlett, Sudbury MA 2005.

Grant Reviewer: The Research Fund for Control of Infectious Diseases and the Health and Health Services Research Fund of the Hong Kong Government, January-February 2004. Asked to review grant for development of a new device for bronchoscopic imaging, permitting improved portability, teaching and performance of bronchoscopy.

Lecturer and cadaver workshop coordinator--Philadelphia EMS remedial intubation training sessions for paramedics: January 24th, 2002; January 30th 2002; May 10th, 2002, November 6th 2002, December 17th, 2002, November 18th, 2003.

Special Consultant: Advanced Projects Section of Wyle Laboratories at the NASA Johnson Space Center; 2000-2001. Consultant on airway management for acute medical events in space.

Special Consultant: American Heart Association, Pediatric Advanced Life Support Videotape, January 2001. Assisted in production of educational videotape about resuscitation and intubation; included Airway Cam images and video clips.

International Advisory Board Member, National Emergency Airway Management Course, sponsored by Departments of Emergency Medicine Brigham and Women's Hospital and Massachusetts General Hospital. Course offered in Chicago, Houston, Philadelphia, and Los Angeles; 1998-2000.

Site Investigator, National Emergency Airway Registry, NEAR '97; 1997-1999. Multi-center study on airway management in emergency departments. Study published: Bair AE, Filbin MR, Kulkarni RG, et. al. The failed intubation attempt in the emergency department: Analysis of prevalence, rescue techniques, and personnel. *J Emerg Med*, 2002; 23: 131-140.

National Park Service Physician, High Altitude Medical Aid Station, Denali National Park, Alaska, June 13-July 12, 1994.

Medical Device Consultation Projects

Clarus Medical Inc.: optical stylets, 2003-2011

Intersurgical Ltd.: supraglottic airway device, 2004-2005, and 2013-2014

Cook Medical: supraglottic airway device, 2005

Vital Signs, Inc.: imaging device, 2009-2011

Ambu Inc.: supraglottic airway device, 2010

Ambu Inc.: imaging device, 2010 - 2013

King Systems: imaging device, 2010

AirTraQ USA: AirTraQ Optical Laryngoscope Training Portal 2010

Principal Investigator of Grants:

- 1999-2000 "The use of video imaging to evaluate external laryngeal manipulation and improve airway visualization during endotracheal intubation." Emergency Medicine Foundation, Innovation in Medical Education Grant, \$4,960.
- 2005 Evaluation of a patient-positioning device for intubation (private industry grant), \$2000.
- 2006-2007 Albert Einstein Medical Center, Einstein Foundation Innovation Award, "Airway Training Center and Best Practice Approach to Intubation." \$49,870.

Richard Levitan, MD

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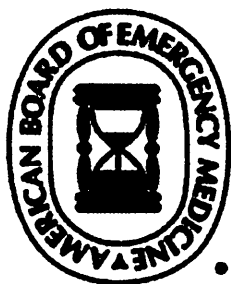
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