

ERIC JOHN LAVONAS, MD, MS

CURRICULUM VITAE - Abridged

Revision date: January 2019

CURRENT POSITION: Emergency physician and medical toxicologist
Senior Medical Director, DH Winter Park Medical Center and Alpine
Clinic
Medical Staff President
Denver Health
Denver, Colorado, USA

BUSINESS ADDRESS: Department of Emergency Medicine
Denver Health and Hospital Authority
777 Bannock Street, Mail Code 0108
Denver, Colorado 80204 USA
(303) 602-5175 (Office)
(303) 602-5184 (Fax)
email: eric.lavonas@dhha.org

EDUCATION:

Undergraduate

Degree: BA	Health Care Policy University of Rochester Rochester, New York	1988
------------	--	------

Graduate

Degree: MD	Doctor of Medicine State University of New York Health Sciences Center Syracuse, New York	1992
------------	---	------

Degree: MS	Clinical Sciences Program (Clinical Research) University of Colorado – Denver Aurora, Colorado	2018
------------	--	------

Post-Graduate

Emergency Medicine Residency	Methodist Hospital of Indiana Indianapolis, Indiana	1992 – 1995
---------------------------------	--	-------------

Medical Toxicology Fellowship	Carolinas Medical Center and Carolinas Poison Center Charlotte, North Carolina	1999 – 2001
----------------------------------	---	-------------

MEDICAL LICENSURE:	Indiana	1993 – 2007
	Kentucky	1995 – 2000
	North Carolina	1999 – 2017
	Colorado	2008 – present
	DEA registration	1993 – present
	DEA “X” waiver (buprenorphine prescribing)	2018 - present

BOARD CERTIFICATON:

Emergency Medicine	American Board of Emergency Medicine #950606 Initial certification 1996; recertified 2006, 2016	1996 – present
Medical Toxicology	American Board of Emergency Medicine #950606 Initial certification 2002; recertified 2012	2002 – present
Undersea and Hyperbaric Medicine	American Board of Emergency Medicine #950606 Initial certification 2004; recertified 2014	2004 - present

ACADEMIC APPOINTMENTS:

Professor Department of Emergency Medicine University of Colorado School of Medicine Aurora, Colorado	2016 – present
--	----------------

MILITARY SERVICE

Honorably discharged. Final rank: Captain, Medical Corps	1997
Individual Ready Reserves	1994 - 1997
Brigade Surgeon Captain, Medical Corps Combat Aviation Brigade, 38 th Infantry Division US Army National Guard Shelbyville, Indiana	1992 – 1994

Medical Platoon Leader 1989 - 1992
Second Lieutenant, Medical Services Corps
Headquarters / Headquarters Company, 42nd Infantry Brigade, 10th Mountain Division
US Army National Guard
Syracuse, New York

COMMITTEE SERVICE

International

International Liaison Committee on Resuscitation
Evidence Reviewer 2018
Evidence Reviewer 2014 – 2015
Member, Advanced Life Support Guidelines Writing Group 2010
Member, Advanced Life Support Task Force 2008 – 2010
Domain Leader, Toxicology Topics 2008 – 2010
Evidence Reviewer 2008 – 2010

Member, Extracorporeal Treatments in Poisoning (EXTRIP) Workgroup 2010 – 2011

Workshop on Antidotes to Highly Toxic Chemical Substances, Pushkin, Russia
Member, United States Delegation 2004
Jointly sponsored by the US Department of State, US Department of Health and
Human Services, Russian Ministry of Health, and International Science and
Technology Center (Moscow)

National

Member, Project Technical Panel: Impact of Altitude on Carbon Monoxide Alarm
Requirements, Fire Protection Research Foundation 2015 – present

American Heart Association
Opioid Overdose Scientific Statement Writing Group:
Senior author 2019
Special Circumstances of Resuscitation: Guidelines Writing Group 2014 – 2015
Chair 2010
Member
Advanced Life Support Subcommittee, Emergency Cardiac Care Committee 2011 – 2013
Member

Underwriter's Laboratories / American National Standards Institute Standards Technical
Panel 2034 (Carbon Monoxide Alarms)
Member, Task Group for Development of Proposed Requirements to Address the
Carbon Monoxide Poisoning Hazard Associated with Portable Generators 2014 – 2015
Member, High Altitude Task Group 2011 – 2014
Panel Member 2008 – present

American College of Medical Toxicology	
Abstract Review Chair, Annual Scientific Meeting	2013 – 2015
Chair, Position Statements and Guidelines Committee	2013 – 2015
Member, Program Director's Committee	2013 – 2015
Member, Board of Directors	2011 – 2015
Co-Chair, Research Committee	2011 – 2014
Chair, Liaison Committee	2010 – 2011
Co-Director, Clinical-Pathologic Correlation (CPC) Case Competition	2006 – 2009
Chair, By-Laws Committee	2004 – 2010
American College of Emergency Physicians	
Council	
Alternate Councillor	2012 – 2015
Councillor	2009 – 2011
Toxicology Section	
Immediate Past-Chair	2009 – 2011
Chair	2007 – 2009
Secretary/Newsletter Editor	2005 – 2007
Clinical Policies Committee	
Member	2006 – 2012
Spokesman	2006 – present
Hyperbaric Medicine Section	
Immediate Past-Chair	2005 – 2006
Chair	2004 – 2005
Chair-Elect	2003 – 2004
Secretary/Newsletter Editor	2002 – 2003
Delegate to the United States Pharmacopeial (USP) Quinquennial Convention	2000
Air Pollution and Respiratory Health Branch, National Center for Environmental Health, US Centers for Disease Control and Prevention (CDC)	
Member, Carbon Monoxide Poisoning Reportable Condition Working Group	2011 – present
Member, Carbon Monoxide Poisoning Surveillance Working Group	2008 – present
American Board of Emergency Medicine	
Oral Examination Standard-Setting Panel Member	2017
Oral Examiner	2010 – present
Representative to the Undersea and Hyperbaric Medicine Examination Committee	2006 – 2009
American Board of Preventive Medicine	
Representative to the Undersea and Hyperbaric Medicine Examination Committee	2009 – 2010
Consumer Products Safety Commission and PIRE Institute	
Member, Expert Panel Convened to Improve the Estimates of the Costs of Injuries Due to Poisoning	2009

Diver's Alert Network Consulting Physician	2000 – 2008
US Food and Drug Administration <i>Ad hoc</i> member (non-voting), Drug Safety and Risk Management Advisory Committee	2013
<i>Regional and Local</i>	
Data and Research Work Group Colorado Consortium for Prescription Drug Abuse Prevention, Colorado Division of Public Health and Epidemiology, Member	2013 – 2015
Denver Epidemiology Work Group, Denver Office of Drug Strategy, Member	2008 – 2014
<i>University</i>	
University of Colorado School of Medicine Promotions Committee	2017 - 2020
<i>Hospital and Affiliated Organizations</i>	
Denver Health and Hospital Authority Provider Credentials and Privileging Committee, Interim Chair	2018 - present
Quality, Safety, and Service Improvement Subcommittee of the Board of Directors	2018 - present
Director of Psychiatry Search Committee, Member	2018 - present
Medical Staff	
President	2018 – 2020
President-Elect	2017 – 2018
Secretary	2014 – 2016
Member, Medical Staff Executive Committee	2014 – present
Medical Necessity Committee	
Chair	2017 – 2018
Member	2017 - present
Medical Operations Council, Member	2016 – 2018
Provider Compensation Committee, Member	2016 – 2018
Joint Strategy Team, Member	2016
Epic implementation team, “Super-User”	2016
Executive Committee for Patient Safety and Quality, Member	2013 – 2014
Graduate Medical Education Committee, Member	2013 – 2015
Physician Compensation Committee, Member	2013 – 2015
Physician Conflict of Interest Committee, Member	2011
Director of Public Health Search Committee, Member	2011
Pharmacy and Therapeutics Committee	
Chair	2010 – 2016
Member	2008 – present

Directors of Service Committee, Member	2010 – 2018
Lean Systems Improvement, “Black Belt”	2010 – present
World-Class Contact Center Initiative, Process Lead	2010
Emerging Infectious Disease Committee, Member	2009
Carolinas Medical Center	
Hyperbaric Oxygen Committee	
Chair (two terms)	2006 – 2007
Member	2001 – 2004
Member	1999 – 2007
Infection Control Committee, Member	2005 – 2007
Intensive Care Advisory Committee, Member	2004 – 2007
Pediatric Emergency Department Director Search Committee, Chair	2003 – 2004
Hospital Resource Group (system-wide disaster planning), Member	2001 – 2007
Disaster Preparedness Subcommittee, Metrolina Trauma Advisory Committee, Member	2005 – 2007
Member, Carbon Monoxide Poisoning Task Force, Mecklenburg County Dept of Health	2000 – 2007
Mecklenburg County Advanced Local Emergency Response (ALERT) Team, Physician	2000 – 2007
Genesaret Free Clinic, Indianapolis, Volunteer Physician	1995 - 1998
<i>Editorial Board Member</i>	
<i>Journal of Medical Toxicology</i>	2014 – present
HONORS AND AWARDS	
Outstanding Volunteer Service	2018
American College of Medical Toxicology	
Denver Health Operational Excellence Awards	2017
First Place: Adult Urgent Care Center: Improving on What We’re Measuring	
Third Place: Single Point Investigators	
Outstanding Contribution to Medical Toxicology Research Award	2017
American College of Medical Toxicology	
Denver Health Pillar Awards	
Patient Safety: Development of On-Line Provider Directory	2017
Financial Vitality: Largest Increase in Departmental Charges While Maintaining Cost	2016
Design and Implementation of Ebola Preparedness Plan	2015
Patient Safety: Active Participation and Response to Patient Safety Events	2015
Design and Implementation of the Severe Alcohol Withdrawal Protocol	2015

Denver Health S.T.A.R. Awards	
Pharmacy Efficiency Project: Savings of \$84,000/month	2015
Excellent Support for Pharmacovigilance Program	2013
Innovative Support to NurseLine; Expanded Protocol Prescribing Program	2013
Leadership in Buprenorphine Safety Projects	2012
Design and Implementation of Emergency Department Pharmacy Specialist Program	2010
Patient Advocate Award	2014
Denver Residency in Emergency Medicine	
Black Belt Awards (Financial Savings)	
More than Double Goal	2010, 2012
More than Quadruple Goal (\$117,602)	2011
Black Belt	2010
Denver Health Lean Systems Improvement	
Fellow	2009
American Academy of Clinical Toxicology	
Fellow	2009
American College of Medical Toxicology	
Best Faculty Discussant	2004
Clinical-Pathologic Correlation Case Conference	
American College of Medical Toxicology	
Fellow	1998
American College of Emergency Physicians	
Excellence in Emergency Medicine Award	1992
Society for Academic Emergency Medicine	
Emergency Medicine Award	1992
SUNY Health Science Center – Syracuse	
<i>Alpha Omega Alpha</i>	1992
Army Commendation Medal	1992
<i>Phi Beta Kappa</i>	1988

PROFESSIONAL ORGANIZATION MEMBERSHIPS

American Heart Association	2019 - Present
The Cochrane Collaboration	2018 – present
Association of Academic Chairs in Emergency Medicine	2017 - 2018
North American Society of Toxicology	2013 – present
International Society of Toxicology (Life Member)	2012 – present
National Eagle Scout Association (Life Member)	2009 – present
Colorado Medical Society	2008 – 2011
Denver Medical Society	2008 – 2009
Undersea and Hyperbaric Medical Society	2001 – 2009
American Academy of Clinical Toxicology	1999 – present
American College of Medical Toxicology	1999 – present
North Carolina Medical Society	1999 – 2008
Mecklenburg County (North Carolina) Medical Society	1999 – 2008
Madison County (Indiana) Medical Society	1997 – 1999
Indiana Medical Society	1996 – 1999
Kentucky Medical Society	1995 – 1996
Society for Academic Emergency Medicine	1992 – present
American College of Emergency Physicians	1992 – present
SUNY Upstate Medical University Alumni Association (Life Member)	1992 – present
Association of Military Surgeons of the United States	1989 – 1995

EXTERNAL FUNDING

Career Totals:

Research Funding: \$3,971,883 (Direct: \$3,322,174)
Principal Investigator: \$3,667,035 (Direct: \$3,076,434)
Co-Investigator: \$304,849 (Direct: \$245,140)
Funding for Educational Program Development: \$33,389 (Direct: \$33,389)
Other External Funding: \$143,553
Total External Funding: \$4,149,007 (Direct: \$3,488,798)

PUBLICATION METRICS

h-index: 28 (Google Scholar); 23 (Research Gate, excluding self-citations) (January, 2019)
ResearchGate Score: 38.49 (January, 2019)

PUBLICATIONS

PEER-REVIEWED MANUSCRIPTS (last 10 years)

59 Gerardo CJ, Vissoci JRN, Evans CS, Simel DL, **Lavonas EJ**. Does this patient have a severe snake envenomation? The Rational Clinical Examination Systematic Review. *JAMA Surg*, 2019, *in press*.
PMID: Pending. doi. Pending

- 58 Soar J, Donnino MW, Maconochie I, Aickin R, Atkins DL, Andersen LW, Berg KM, Bingham R, Böttlinger BW, Callaway CW, Couper K, Bittencourt Cuoto T, DeCaen AR, Deakin CD, Drennen IR, Guerguerian A-M, **Lavonas EJ**, Meaney PA, Nadkarni VA, Neumar RW, Ohshimo S, O’Neil BJ, Yong-Kwang Ong G, Paiva EF, Parr MJ, Reis AG, Reynolds JC, Ristagno G, Sandroni C, Schexnayder SM, Schlefield BR, Shimizu N, Tijssen JA, Van de Voorde P, Wang T-L, Welsford M, Hazinski MF, Nolan JP, Morley PT, On behalf of the ILCOR Collaborators. 2018 International Consensus on Cardiopulmonary Resuscitation and Emergency Cardiovascular Care Science with Treatment Recommendations Summary. *Circulation* 2018, *ePub* Nov 5, 2018. PMID: 30409433. doi: 10.1161/CIR.0000000000000611
Copub in *Resuscitation*, doi: <https://doi.org/10.1016/j.resuscitation.2018.10.017>
Designated “article of the month” in *Resuscitation* for December, 2018.
- 57 Mullins ME, Gerardo CJ, Bush SP, Rose SR, Greene S, Quackenbush E, Lewis B, Anderson VE, Kleinschmidt K, Schwarz RB, Charlton NP, Toschlog EA, Sharma K, Denning DA, **Lavonas EJ**. Adverse events in the efficacy of crotalidae polyvalent immune Fab antivenom versus placebo on recovery from copperhead snakebite trial. *South Med J*, 2018; 111(12):716-20
PMID: 30512122. doi: 10.14423/SMJ.0000000000000902
- 56 Anderson VE, Gerardo CJ, Rapp-Olsson M, Bush S, Mullins ME, Greene S, Toschlog EA, Quackenbush E, Rose SR, Schwartz RB, Charlton NP, Lewis B, Kleinschmidt KC, Sharma K, **Lavonas EJ**. Early Administration of Fab Antivenom Resulted in Faster Limb Recovery in Copperhead Snake Envenomation Patients. *Clin Toxicol*, 2018. Published electronically Sept 3, 2018
PMID: 30175628. doi: <https://doi.org/10.1080/15563650.2018.1491982>.
- 55 Heard K, Anderson VE, **Lavonas EJ**, Dart RC, Green JL. Serum paracetamol-protein adducts in ambulatory subjects: Relation to recent reported paracetamol use. *Biomarkers* 2018; 23((3): 288-92.
PMID: 29179598. doi: <https://doi.org/10.1080/1354750X.2017.1410857>.
- 54 Gerardo CJ, Quackenbush E, Lewis B, Rose SR, Greene S, Toschlog EA, Charlton NP, Mullins ME, Schwartz R, Denning D, Sharma K, Kleinschmidt K, Bush SP, Ryan S, Gasior M, Anderson VE, **Lavonas EJ**. The efficacy of Fab antivenom versus placebo plus optional rescue therapy on recovery from copperhead snake envenomation: a randomized, double-blind, placebo-controlled clinical trial. *Ann Emerg Med*, 2017; 70(2): 233-244.
PMID: 28601268. doi: <http://dx.doi.org/10.1016/j.annemergmed.2017.04.034>.
- 53 Heard K, Anderson V, Dart RC, Kile D, **Lavonas EJ**, Green JL. Serum acetaminophen protein adduct concentrations in pediatric emergency department patients. *J Pediatr Gastroenterol Nutr*. 2017; 64(4):533-5.
PMID: 27846064. doi: 10.1097/MPG.0000000000001459.
- 52 St-Onge M, Anseeuw K, Cantrell L, Gilchrist IC, Hantson P, Bailey B, Lavergne V, Gosselin S, Kerns W, Laliberté M, Jang DH, **Lavonas EJ**, Juurlink DN, Muscedere J, Yang C-C, Sinuff T, Rieder M, Mégarbane B. Recommendations for the treatment of calcium channel blocker poisoning in adults. *Crit Care Med*. 2017;45(3):e306-e305
PMID: 27749343. doi: 10.1097/CCM.0000000000002087.

-
- 51 Srisuma S, Cao D, Kleinschmidt K, Heffner AC, **Lavonas EJ**. Missed opportunities? An evaluation of potentially preventable poisoning deaths. *Clin Toxicol*, 2016; 54(5):441-6. PMID: 26998958. doi: 10.3109/15563650.2016.1157721. 2016
- 50 **Lavonas EJ**, Drennan IR, Gabrielli A, Heffner AC, Hoyte CO, Orkin AM, Sawyer KN, Donnino MW. Part 10: special circumstances of resuscitation: 2015 American Heart Association guidelines update for cardiopulmonary resuscitation and emergency cardiovascular care. *Circulation*. 2015;132(suppl 2):S501-18. PMID: 26472998. doi: 10.1161/CIR.0000000000000264. 2015
- 49 Neumar RW, Shuster M, Callaway CW, Gent LM, Atkins DL, Bhanji F, Brooks SC, de Caen AR, Donnino MW, Ferrer JME, Kleinman ME, Kronick SL, **Lavonas EJ**, Link MS, Mancini ME, Morrison LJ, O'Connor RE, Samson RA, Schexnayder SM, Singletary EM, Sinz EH, Travers AH, Wuckoff MH, Hazinski MF. Part 1: Executive summary; 2015 American Heart Association guidelines update for cardiopulmonary resuscitation and emergency cardiovascular care *Circulation*, 2015;132(suppl 2):S315-S367. PMID: 26472989. doi: 10.1161/CIR.0000000000000252. 2015
- 48 Callaway CW, Soar J, Aibiki M, Böttiger BW, Brooks SC, Deakin CD, Donnino MW, Drajer S, Kloeck W, Morley PT, Morrison LJ, Neumar RW, Nicholson TC, Nolan JP, Okada K, O'Neil BJ, Paiva EF, Parr MJ, Wang TL, Witt J; **Advanced Life Support Chapter Collaborators**. Part 4: Advanced Life Support: 2015 International Consensus on Cardiopulmonary Resuscitation and Emergency Cardiovascular Care Science With Treatment Recommendations. *Circulation*, 2015; 132(16 Suppl 1):S84-S145. PMID: 26472860. doi: 10.1161/CIR.0000000000000273. 2015
- 47 **Lavonas EJ**, Buchanan JA. Hemodialysis for Lithium Poisoning. *Cochrane Database Syst Rev*, 2015 (9): CD007951. PMID: 26374731. doi:10.1002/14651858.CD007951.pub2 . 2015
- 46 Srisuma S, Wananukul W, **Lavonas EJ**. Proximal muscle weakness in severe lead poisoning from retained bullet fragments. *Clin Toxicol*, 2015; 53(6):586-7. PMID: 25979106. doi: 10.3109/15563650.2015.1046182. 2015
- 45 **Lavonas EJ**, Gerardo CJ, Copperhead Snakebite Recovery Outcome Group. Prospective study of recovery from copperhead snake envenomation: an observational study. *BMC Emerg Med* 2015; 15(9),1-21. PMID 25975429. doi:10.1186/s12873-015-0033-6. Available at: <http://www.biomedcentral.com/1471-227X/15/9>. 2015
- 44 Gerardo CJ, Evans C, Kuchibhathla M, Mando J, Drake W, Kopec K, **Lavonas EJ**. Time to antivenom administration is not associated with total antivenom dose administered in a copperhead predominant snakebite population. *Acad Emerg Med*, 2015; 22(3):308-14. PMID: 25728451. doi: 10.1111/acem.12598. 2015

-
- 43 Chen HT, Yip F, **Lavonas EJ**, Iqbal S, Turner N, Cobb B, Garbe P. Using the exhibited generalization approach to evaluate a carbon monoxide ordinance. *Eval Program Plan* 2014; 47(Dec):35-44. PMID: 25105583. doi: 10.1016/j.evalprogplan.2014.06.003. 2014
- 42 Gerardo CJ, McKinney R, **Lavonas EJ**. Ethical considerations in design of a study to evaluate an FDA-approved indication: Antivenom versus placebo for copperhead envenomation. *J Soc Clin Trials*, 2014; 11(5):560-4. PMID: 25055811. doi: 10.1177/1740774514543538 2014
- 41 Srisuma S, **Lavonas EJ**, Wananukul W. Ergotism due to interaction of ergotamine with CYP3A4 inhibitors presenting with factitious hypotension. *Clin Toxicol*, 2014; 52(7):674-7. PMID: 24978905. doi: 10.3109/15563650.2014.933230. 2014
- 40 **Lavonas EJ**, Severtson SG, Martinez EM, Bucher-Bartelson B, LeLait M-C, Green JL, Murrelle LE, Cicero TJ, Kurtz SP, Rosenblum A, Surratt HL, Dart RC. Abuse and diversion of buprenorphine sublingual tablets and film. *J Subst Abuse Treat* 2014; 47(1):27-34. PMID: 24680219. doi: 10.1016/j.jsat.2014.02.003 2014
- 39 **Lavonas EJ**, Khatri V, Daugherty C, Bucher-Bartelson B, King T, Dart RC. Medically significant late bleeding after treated crotaline envenomation: a systematic review. *Ann Emerg Med*, 2014; 63(1):71-8. PMID 23567063. doi: 10.1016/j.annemergmed.2013.03.002 2014
- 38 **Lavonas EJ**, Banner W, Bradt P, Bucher-Bartelson B, Brown KR, Rajan P, Murrelle L, Dart RC, Green JL. Root causes, clinical effects, and outcomes of unintentional exposures to buprenorphine by young children. *J Pediatr*, 2013; 163(5):1377-83. PMID: 23993129. doi: 10.1016/j.jpeds.2013.06.058 2013
- 37 **Lavonas EJ**, Benson BE, Seifert SA. Failure to develop sensitization despite repeated administration of ovine Fab snake antivenom: Update of a single-patient, multicenter case series. *Ann Emerg Med* 2013; 61(3):371-2. PMID 23433022. doi: 10.1016/j.annemergmed.2012.08.027 2013
- 36 Dasgupta N, Freifeld C, Brownstein JS, Menone CM, Surratt HL, Poppish L, Green JL, **Lavonas EJ**, Dart RC. Crowdsourcing back market pricing of prescription opioids. *J Med Internet Res*, 2013; 15(8):e178. PMID: 23956042. doi: 10.2196/jmir.2810 2013
- 35 Toschlog EA, Bauer CR, Hall EL, Dart RC, Khatri V, **Lavonas EJ**. Surgical considerations in the management of pit viper snake envenomation. *J Am Coll Surg*, 2013; 217(4): 726-35. PMID 23891068. doi: 10.1016/j.jamcollsurg.2013.05.004 2013

-
- 34 Hahn SA, **Lavonas EJ**, Mace SE, Napoli AM, Fesmire FM, ACEP Clinical Policies Committee. Clinical policy: Critical issues in the initial evaluation and management of patients presenting to the emergency department in early pregnancy. *Ann Emerg Med*, 2012; 60(3):381-90. PMID 22921048. doi: 10.1016/j.annemergmed.2012.04.021 2012
- 33 Lavergne V, Nolin TD, Hoffman RS, Roberts D, Gosselin S, Goldfarb DS, Kielstein JT, Mactier R, Maclaren R, Mowry JB, Bunchman TE, Juurlink D, Megarbane B, Anseeuw K, Winchester JF, Dargan PI, Liu KD, Hoegberg LC, Li Y, Calello DP, Burdmann EA, Yates C, Laliberté M, Decker BS, Mello-Da-Silva CA, **Lavonas E**, Ghannoum M. The EXTRIP (Extracorporeal Treatments In Poisoning) Workgroup: Guideline Methodology. *Clin Toxicol*, 2012; 50(5): 403-13. PMID: 22578059. doi: 10.3109/15563650.2012.683436 2012
- 32 **Lavonas, EJ**. Coagulopathy: The most important thing we still don't know about snakebite. *West J Emerg Med*, 2012; 13(1):75-6. PMID: 22461926. doi: 0.5811/westjem.2011.8.6884 2012
- 31 **Lavonas EJ**. Antivenoms for snakebite: design, function, and controversies. *Curr Pharm Biotechnol*, 2012; 13(10):1980-6. PMID: 22352733. doi: <http://dx.doi.org/10.2174/138920112802273227> 2012
- 30 Schaeffer TH, Khatri V, Zolot L, **Lavonas EJ**. Incidence of immediate hypersensitivity reaction and serum sickness following administration of Crotalidae Polyvalent Immune Fab antivenom - A meta-analysis. *Acad Emerg Med*, 2012; 19(2):121-31. PMID 22320362. doi: 10.1111/j.1553-2712.2011.01276 2012
- 29 Buchanan J, **Lavonas EJ**. Aganulocytosis and other consequences due to illicit cocaine contaminated with levamisole. [Invited review]. *Curr Opin Hematol*, 2012; 19(1):27-31 PMID: 22143075. doi: 10.1097/MOH.0b013e32834da9ef 2012
- 28 **Lavonas EJ**, Fries JF, Furst DE, Rothman KJ, Stergachis A, Vaida AJ, Zelterman D, Reynolds KM, Green JL, Dart RC. Comparative risks of non-prescription analgesics: a structured topic review and research priorities. *Exp Opin Drug Saf*, 2012; 11(1):33-44. PMID: 22010836. doi: 10.1517/14740338.2012.629782. 2012
- 27 Ghannoum M, Nolin TD, Vavergne V, Hoffman RS, **EXTRIP workgroup**. Blood purification in toxicology: nephrology's ugly duckling. *Adv Chronic Kid Dis*, 2011; 18(3):160-6. PMID: 21531321. doi: <http://dx.doi.org/10.1053/j.ackd.2011.01.008> 2011
- 26 Buckley NA, Juurlink DN, Isbister G, Bennett MH, **Lavonas EJ**. Hyperbaric oxygen for carbon monoxide poisoning [review]. *Cochrane Database Syst Rev*, 2011; issue 4, article CD002041. PMID 21491385. doi: 10.1002/14651858.CD002041.pub3 2011

-
- 25 Jacob J, **Lavonas EJ**. Falsely Normal Anion Gap in Severe Salicylate Poisoning Caused by Laboratory Interference. *Ann Emerg Med*, 2011; 58(3):280-1
PMID: 21492961. doi: 10.1016/j.annemergmed.2011.02.023
- 24 Fesmire FM, Brown MD, Espinosa JA, Shih RD, Silvers SM, Wolf SJ, Decker WW, **ACEP Clinical Policies Committee**. Critical issues in the evaluation and management of adult patients presenting to the emergency department with suspected pulmonary embolism. *Ann Emerg Med* 2011; 57(6):628-52
PMID: 21621092. doi: <http://dx.doi.org/10.1016/j.annemergmed.2011.01.020>
- 23 Diercks DB, Mehrotra A, Nazarian DJ, Promes SB, Decker WW, Fesmire FM, **ACEP Clinical Policies Committee**. Critical issues in the evaluation of adult patients presenting to the emergency department with acute blunt abdominal trauma. *Ann Emerg Med* 2011; 57(4):387-404
PMID: 21453818. doi: <http://dx.doi.org/10.1016/j.annemergmed.2011.01.013>
- 22 **Lavonas EJ**, Ruha A-M, Banner W, Bebart V, Bernstein JN, Bush SP, Kerns WP, Richardson WH, Seifert SA, Tanen DA, Curry SC, Dart RC. Unified treatment algorithm for the management of Crotaline snakebite in the United States: results of an evidence-informed consensus workshop. *BMC Emerg Med*. 2011, 11(2), ePub. PMID 21291549. doi: 10.1186/1471-227X-11-2
Designated “highly accessed” by the journal.
Designated “#3 Most Influential Article of 2015” by the journal.
- 21 Yin S, Kokko J, **Lavonas E**, Mlynarchek S, Bogdan G, Schaeffer T. Factors associated with difficulty achieving initial control with Crotalidae Polyvalent Immune Fab antivenom in snakebite patients. *Acad Emerg Med* 2011; 18(1):46-52.
PMID 21166732. doi: 10.1111/j.1553-2712.2010.00958.x
- 20 **Lavonas EJ**, Kokko J, Schaeffer TH, Mlynarchek SL, Bogdan GM, Dart RC. Short-term outcomes following Fab antivenom therapy for severe crotaline snakebite. *Ann Emerg Med* 2011; 57(2):128-37.
PMID: 20952098. doi: 10.1016/j.annemergmed.2010.06.550
- 19 **Lavonas EJ**, Reynolds KM, Dart RC. Therapeutic doses of acetaminophen are not associated with liver injury in children: A systematic review. *Pediatrics*. 2010; 126(6):e1430-44.
PMID 21098156. doi: 10.1542/peds.2009-3352
- 18 Vanden Hoek TL, Morrison LJ, Shuster M, Donnino M, Sinz E, **Lavonas EJ**, Jeejeebhoy FM, Gabrielli A. Part 12: Cardiac Arrest in Special Situations: 2010 American Heart Association Guidelines for Cardiopulmonary Resuscitation and Emergency Cardiovascular Care. *Circulation*. 2010; 122(suppl_3):S829-61.
PMID 20956228. doi: 10.1161/CIRCULATIONAHA.110.971069

-
- 17 Morrison LJ, Deakin CD, Morley PT, Callaway CW, Kerber RE, Kronick SL, **Lavonas EJ**, Link MS, Neumar RW, Otto CW, Parr M, Shuster M, Sunde K, Peberdy MA, Tang W, Vanden Hoek TL, Böttiger BW, Drajer S, Han Lim S, Nolan JP; on behalf of the Advanced Life Support Chapter Collaborators. Part 8: Advanced life support: 2010 International Consensus on Cardiopulmonary Resuscitation and Emergency Cardiovascular Care Science With Treatment Recommendations. *Circulation*. 2010; 122(suppl_2):S345-421. PMID: 20956256. doi: 10.1161/CIRCULATIONAHA.110.971051
Simultaneous publication: Resuscitation 2010; 81S:e93-174. PMID: 20956032.
- 16 Heard KJ, **Toxicology Investigator Network Authorship Group**. A multi-center comparison of the safety of oral versus intravenous acetylcysteine for treatment of acetaminophen overdose. *Clin Toxicol*, 2010; 48(5):424-30. PMID: 20524832. doi: 10.3109/15563650.2010.486381
- 15 Buchanan JA, Oyer RJ, Patel NR, Jacquet GA, Bornikova L, Thienelt C, Shriver DA, Shockley LW, Wilson ML, Hurlbut KM, **Lavonas EJ**. A confirmed case of agranulocytosis after use of cocaine contaminated with levamisole. *J Med Toxicol*, 2010; 6(2):160-4. PMID: 20358411. doi: 10.1007/s13181-010-0060-3
- 14 Howell JM, Eddy OL, Lukens TW, Thiessen MEW, Weingart SD, Decker WW, **ACEP Clinical Policies Committee**. Clinical Policy: Critical issues in the evaluation and management of emergency department patients with suspected appendicitis. *Ann Emerg Med*, 2010; 55(1):71-116. PMID: 20116016. doi: <http://dx.doi.org/10.1016/j.annemergmed.2009.10.004>
- 13 Nazarian DJ, Eddy OL, Lukens TW, Weingart SD, Decker WW, and the **ACEP Clinical Policies Committee**. Clinical Policy: Critical issues in the management of adult patients presenting to the emergency department with community acquired pneumonia. *Ann Emerg Med*, 2009; 54(5):704-31. PMID: 19853781. doi: <http://dx.doi.org/10.1016/j.annemergmed.2009.07.002>
- 12 Centers for Disease Control (Authors: Brackney M, Baumbach J, Ewers C, Martinez AL, Hagan J, Czuchlewski D, Foucar K, Fekrazad MH, Buchanan JA, **Lavonas EJ**, Nelson C, Seifert SA, Rimple D, Nolte K, Ta ML, Wood RW, VanEenwk J, Reuter N, Vagi S). Agranulocytosis associated with cocaine use, 4 states, March 2008 – July 2009. *MMWR* 2009; 58(49):1381-5. *Republication: JAMA 2010; 303(6):504-12.* PMID 20019655.
Link: <http://www.cdc.gov/mmwr/preview/mmwrhtml/mm5849a3.htm>
- 11 Courtney DM, Neumar RW, Venkatesh AK, Kaji AH, Carins CB, **Lavonas EJ**, Richardson LD. Unique characteristics of emergency care research: Scope, populations, and infrastructure. *Acad Emerg Med*, 2009; 16:990-4. PMID 19799578. doi: 10.1111/j.1553-2712.2009.00530.x

- 10 **Lavonas EJ**, Schaeffer TH, Kokko J, Mlynarchek SL, Bogdan GM. Crotaline Fab antivenom appears to be effective in cases of severe North American pit viper envenomation: An integrative review. *BMC Emerg Med*, 2009; 9:13. PMID 19545426. doi: 10.1186/1471-227X-9-13
- 9 Borron SW, Caravati EM, Cobaugh DJ, Curry SC, Dart R, Falk JL, Goldfrank L, Gorman SE, Groft S, Heard K, Miller K, Olson KR, O'Malley G, Seger D, Seifert SA, Sivilotti M, Schaeffer T, Tomassoni AJ, Wise R, Bogdan G, Alhelail M, Buchanan J, Hoppe J, **Lavonas E**, Mlynarchek S, Rhyee S, Varney S, Zosel A. Expert consensus guidelines for stocking of antidotes in hospitals that provide emergency care. *Ann Emerg Med*, 2009; 54(3): 386-94. PMID 19406507. doi: 10.1016/j.annemergmed.2009.01.023

EXTRAMURAL LECTURES

Visiting Professorships

- “Advances in Cardiopulmonary Resuscitation.” Hospital-wide grand rounds, King Abdulaziz Medical City, Riyadh, Kingdom of Saudi Arabia, January 6, 2016. 2016
- “Carbon Monoxide Poisoning: Prevention, Diagnosis, and Treatment.” Department of Emergency Medicine grand rounds, King Abdulaziz Medical City, Riyadh, Kingdom of Saudi Arabia, January 6, 2016. 2016
- “Carbon Monoxide Poisoning: Lots of Noise about the Silent Killer”. The Howard Weinberger MD Lecture, SUNY Upstate Medical University, Syracuse, NY, Nov. 15, 2006. 2006

International

- “ACLS Guidelines Update.” American Heart Association Emergency Cardiac Care 2015 Guidelines International Instructor Conference, Sapienza University of Rome, Italy, February 25, 2016. [keynote] 2016
- “Updates in CPR and Emergency Cardiac Care: Guidelines Science Update”. American Heart Association Emergency Cardiac Care Guidelines 2015 MENA Region International Instructor Rollout, King Khalid University Hospital/Al Khozama Conference Center, Riyadh, Kingdom of Saudi Arabia, January 5, 2016 . [keynote] 2016
- “ACLS Instructor Update”. American Heart Association Emergency Cardiac Care Guidelines 2015 International Instructor Rollout for the MENA Region, King Khalid University Hospital/Al Khozama Conference Center, Riyadh, Kingdom of Saudi Arabia, January 5, 2016 . [plenary] 2016
- “Health and Societal Effects of Marijuana Legalization.” Consul of Denmark and delegation from the Danish Parliament. Denver, Colorado, September 26, 2014. 2014

- “Abuse, Misuse, and Diversion of Prescription Opioids: Evaluating the Problem and Proposed Solutions.” Ontario Methadone Prescriber’s Conference, College of Physicians and Surgeons of Ontario, Toronto, ON, November 9, 2012. [keynote] 2012
- “Pressure Bandage Immobilization for Viperid Snakebite: How a Recommendation Came to Be.” 17th International Society of Toxinology World Congress & Venom Week 2012, 4th International Scientific Meeting. Honolulu, HI, July 8 – 13, 2012 . 2012
- “Clinical Experience with the American Cyanide Antidote Kit”, Workshop on Antidotes to Highly Toxic Chemical Substances, St. Petersburg (Pushkin City), Russia, June 30, 2004. 2004