

CURRICULUM VITAE FOR PROMOTION AND TENURE

Jessie Gillund Nelson, M.D.
US Citizenship

PROFESSIONAL ADDRESS

Regions Hospital
 Department of Emergency Medicine
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 St. Paul, MN 55101
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Education

Degree	Institution	Date Degree Granted
B.S.	University of Minnesota Minneapolis, MN Genetics and Cell Biology <i>Summa Cum Laude</i>	1997
M.D.	University of Minnesota School of Medicine Minneapolis, MN Doctor of Medicine	2001
Residency	Regions Hospital HealthPartners Institute for Medical Education Emergency Medicine St. Paul, MN	2004
Fellowship	Medical Education and Simulation Fellowship Regions Hospital HealthPartners Institute for Medical Education with Coursework In Adult Education through the College of Work Family and Community Education at the University of Minnesota St. Paul, MN	2005

Certifications, Licenses

Advanced Pediatric Life Support (APLS)	2010-Present
Advanced Cardiac Life Support (ACLS)	2010-Present
Pediatric Fundamental Critical Care Medicine	2010-Present
Fundamental Critical Care Support Course Society of Critical Care Medicine Certification	2008-Present
American Board of Emergency Medicine Diplomat	2005-Present
Minnesota Medical License #46265	2004-Present
Minnesota DEA	2004-Present
Wisconsin Medical License #46877	2004-Present
Wisconsin DEA	2004-Present
Advanced Trauma Life Support (ATLS)	2001-Present

Academic Appointments

University of Minnesota, Twin Cities Associate Professor of Emergency Medicine	2015-Present
University of Minnesota, Twin Cities Assistant Professor of Emergency Medicine	2005-2015
HealthPartners Clinical Simulation Adjunct Faculty	2010-Present
University of Minnesota, Twin Cities Assistant Professor of Emergency Medicine	2005-2015
HealthPartners Simulation Center for Patient Safety At Metropolitan State University Physician Faculty	2005-2010

Clinical/Hospital Appointments

Director of Emergency Department Educational Research Regions Hospital	2015-Present
Associate Director Emergency Medicine Procedural Simulation	2010-Present

Regions Hospital St. Paul, MN	
Courtesy Staff Physician Emergency Medicine Department Westfields Hospital New Richmond, WI	2009-2015
Staff Physician Emergency Medicine Department Hudson Hospital Hudson, WI	2008-Present
Senior Staff Physician, Core Faculty Emergency Medicine Department Regions Hospital HealthPartners Medical Group St. Paul, MN	2005-Present
Courtesy Staff Emergency Medicine Department St. Croix Regional Medical Center St. Croix Falls, WI	2005-2014

Current Membership and Offices in Professional Organizations

American College of Physician Executives	2013
Society for Academic Emergency Medicine Simulation Academy	2012
Society of Critical Care Medicine	2006
Society of Simulation in Healthcare	2005
Fellow, American College of Emergency Medicine	2004
Society for Academic Emergency Medicine	2001
Fellow, American Academy of Emergency Medicine	2001
Alpha Omega Alpha Medical Honor	2000

HONORS AND AWARDS FOR RESEARCH WORK, TEACHING, PUBLIC ENGAGEMENT, AND SERVICE

Best Faculty Research Poster Presentation "Cost-Effectiveness of Physician Incentives for Resident Feedback" SAEM Great Plains Regional Meeting – September 24, 2016 Iowa City, IA	2016
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Best Poster, 2 nd place HealthPartners Institute of Education and Research Celebration of Education and Research	2013
HealthPartners Medical Group Excellence in Medical and Dental Education Award	2011
Best Innovation in Emergency Medicine Education (IEME) Award for Thoracotomy Training without the Live Animal – Development of a Pre-fabricated Fiberglass Torso for training EM Residents Multiple Invasive Truncal Procedures, Awarded a SAEM Annual Meeting Phoenix, AZ	2010
Nursing Specialty Award Winner Practice Outside of the Comfort Zone: High-Fidelity Simulation Training Makes Rapid Response Teams More Skilled and Comfortable in Roles – <i>Elizabeth A. LaVelle</i> , Jessie Nelson, Sharon Denning	2006

RESEARCH AND SCHOLARSHIP

Grants and Contracts

Regions Hospital RED (Research, Education, Development) Grant
Regions Hospital Foundation
Title: Emergency Department Mass Casualty Incident Education: Evaluation of Microlearning
Strategies
Study Period: September 2017 – September 2018
Direct Cost Per Year: \$8211

Principal Investigator
HealthPartners Research Foundation
Title: “Emergency Medicine Evaluation of Video Laryngoscopes in Simulation (EMESIS)”
Study Period: February 2010 – September 2011
% In-kind Effort: 5
Direct Cost Per Year: \$24,976
% Funded Salary Support: 0

Instructor, curriculum development for Educational Grant
Fred C. and Katherine B. Andersen Foundation
Title: Emergency Care Training for Physicians working in Western Wisconsin hospitals
Dates: July 2012 – November 2012
Direct costs/year: \$25,101
% Funded salary support: 36 hours

Publications [Note if these are published electronically with a URL if appropriate]

Peer-Reviewed Publications

Mott S, Paddock M, **Nelson, J**. Woman Swallows a “Handful of Pills”. *Journal of Education and Teaching in Emergency Medicine*, 3(3), 2018. Retrieved from <https://escholarship.org/uc/item/46x347bb>

Roles: manuscript preparation, resident supervision

Hart D, **Nelson J**, Moore J, Gross E, Oni A, and Miner J. Shoulder Dystocia Delivery by Emergency Medicine Residents: A High Fidelity versus a Novel Low Fidelity Simulation Model—A Pilot Study. *AEM Education and Training*. October, 2017. Digital Object Identifier (DOI) - 10.1002/aet2.10054

Binstadt E, **Nelson J**, Curl N, Johnson, G, Hegarty, C, Knopp R. Assessing informed consent skills of emergency medicine resident physicians. *AEM Education and Training*. July, 2017. Digital Object Identifier (DOI) – 10.1002/aet2.10037

Nelson JG and Zhu DW. Atrial flutter with 1:1 conduction in undiagnosed Wolff-Parkinson-White Syndrome. *Journal of Emergency Medicine*. 2014 Jan 16. Pii: S0736-4679. PMID: 24440627 (JEM 2012 Impact Factor 1.331)

Roles: Primary author, manuscript preparation.

Hegarty C, Barringer K, **Nelson J**, Raghunandan S, Binstadt E. ABC's of Team Leadership in Emergency Medicine. *MedEdPORTAL*; 2013. Available from: www.mededportal.org/publication/9552

From 09/18/2013 to 06/30/2014, this resource was downloaded 30 times.

Role: Manuscript editing.

Nelson JG, Wewerka SS, Woster CM, Burnett AM, Salzman JG, Frascone RJ. Evaluation of the Storz CMAC[®], Glidescope[®] GVL, Airtraq[®], King LTS-DT, and Direct Laryngoscopy in a Simulated Difficult Airway. *Am J of Emerg Med*. 2013;31(3):589-592 PMID: 23347722 (Am J Emerg Med Impact Factor: 1.704)

Roles: Guarantor of integrity of entire study, developed study concept, developed study design, supervised resident involvement, participant recruitment, experiment design, data acquisition, conducted experimental studies, manuscript editing and manuscript review

Binstadt E, Donner S, **Nelson J**, Flottesch T and Hegarty C. Simulator training improves fiber-optic intubation proficiency among emergency medicine residents. *Acad Emerg Med*. 2008 Nov;15(11):1211-4. PMID: 18699826 (Impact Factor 1.76)

Roles: Conducted experimental studies, data acquisition, manuscript editing, manuscript review

Hegarty CB, **Nelson J**, Shortness of Breath/PEA. *MedEd PORTAL*; 2008

Available from:

<http://services.aamc.org/jsp/mededportal/retrieveSubmissionDetailById.do?subId=1071>

From 8/29/08 to 8/1/14, this resource was downloaded 62 times.

Roles: Tested case, administered case, manuscript editing, manuscript review

Hegarty C, **Nelson J**. Stab to Neck. *MedEdPORTAL*; 2007.

Available from:

<http://services.aamc.org/jsp/mededportal/retrieveSubmissionDetailById.do?subId=528>

From 3/4/09 to 8/1/14, this resource was downloaded 32 times.

Roles: Tested case, administered case, manuscript editing, manuscript review

Articles Submitted for Publication

Binstadt E, **Nelson J**. When the learner is the expert: developing a simulation-based curriculum for Emergency Medicine faculty to improve performance and teaching of rare clinical procedures. Submitted to *Simulation in Healthcare*. May 2018.

Educational Videos-Physician Education Material

Nelson JG: Small Bore Chest Tube Insertion. Video created for Trauma Education: The Next Generation. September 2015 – Roles: content creation, on-screen, editing

Rasimas JJ and **Nelson JG**: Differentiating the Agitated Patient. Video created for Trauma Education: The Next Generation. September 2015 – Roles: recruitment, interviewing specialist, editing

Rasimas JJ and **Nelson JG**: Choosing medication for the agitated patient. Video created for Trauma Education: The Next Generation. September 2015 – Roles: recruitment, interviewing specialist, editing

Nelson JG and Kalliainen L. Video Series on Emergency Department evaluation and management of acute hand and wrist injuries. HealthPartners Institute for Education and Research. Presented at Trauma Education: The Next Generation. September 2014.

Nelson JG and Switzer J. Video Series on Emergency Department evaluation and management of acute shoulder and proximal humerus injury. HealthPartners Institute for Education and Research. In final editing stages. 2014.

The Emergency Practitioner & The Unhealthy Drinker: Motivating Patients for Change. Member of American College of Emergency Physicians Task Force for creation of educational toolbox for practitioners. 2006

Chapters in Books

Nelson JG and Hemphill RR. Clotting Disorders. Chapter 234. In *Tintinalli's Emergency Medicine: A Comprehensive Study Guide*, 8th ed. Judith E. Tintinalli, J. Stephan Stapczynski, O. John Ma, Donald M. Yealy, Garth D. Meckler and David M. Cline. The American College of Emergency Physicians, 2015, The McGraw-Hill Companies, Inc.

Nelson JG and Hemphill RR. Clotting Disorders. In *Tintinalli's Emergency Medicine: A Comprehensive Study Guide*, 7th ed. Judith E. Tintinalli, J. Stephan Stapczynski, David M. Cline, O. John Ma, Rita K. Cydulka, and Garth D. Meckler. The American College of Emergency Physicians, 2011, The McGraw-Hill Companies, Inc.

Websites

1. Blog Posts on www.feminem.org.

- a) **Nelson J.** Sending FemImEMs Back to the Kitchen.
<https://feminem.org/2015/12/11/kitchen-simulation/> December 11, 2015.
 - b) **Nelson J.** The Nelson Rule for Academic Sanity.
<https://feminem.org/2015/09/15/the-nelson-rule-for-academic-sanity/> September 15, 2015.
2. Oversight of Regions Hospital Emergency Department Intranet site “EDNET”), 2014-current
 3. Regions Hospital Emergency Center.
<http://www.regionshospital.com/rh/specialties/emergency-center/index.html> (accessed March 7, 2014). Uses Oracle WebCenter. I have distributed authorship rights and make content updates as needed.

Presentations

Invited Oral Presentations at International Professional Meetings, Conferences, etc.

1. Lee S, Schnapp B, Barringer K, **Nelson J**, Bentley S, and Love J. Invited Panelist for Education Research: You May Already Be Doing It. A didactic at the Society for Academic Emergency Medicine Annual Meeting, May 12, 2016, New Orleans, LA.
2. **Nelson J** and LaVelle B. They Don't All Code: Using Simulation to Train Rapid Response Teams. Workshop Presented at the 2007 International Meeting for Simulation in Healthcare, Orlando, FL, January 16, 2007.
3. **Nelson J**, and LaVelle B. Applying Educational Theory to Simulation: A Rookie's Guide to Teaching with Simulation. Workshop presented at the 2007 International Meeting for Simulation In Healthcare. Orlando, FL, January 15, 2007.

Invited Oral Presentations at National Professional Meetings, Conferences, etc.

1. **Nelson J.** Terrific Talks Take Time. Presented as part of the American Academy of Emergency Medicine Open Mic Competition, February 19, 2016, Las Vegas, NV.
2. Madhok M and **Nelson JG.** SES120: Using Simulation to Assess the Milestones. American College of Graduate Medical Education Annual Meeting, March 1, 2014, Washington, DC

Invited Oral Presentations at Local and Regional Professional Meetings, Conferences, etc.

1. **Nelson J.** The First Five Minutes of Badness. Lecture for Internal Medicine Residents and Students. Regions Hospital, St. Paul, MN. April 16, 2018.
2. **Nelson J** and Schnitker C. Addressing Goals of Care when the Vital are Terrible. Lecture for Minnesota Academy of Physician Assistants 2018 Spring CME Agenda. March 15, 2018, Minneapolis, MN.
3. **Nelson J.** ED Simulation Flea Market 2.0. Lecture at Emergency Medicine Leadership Summit 2017 presented by Minnesota Chapter of the American College of Emergency Physicians. November 13, 2017, Edina, MN.

4. **Nelson J.** "Building a Procedure Lab From Scratch". Breakout Session at Simulation 2017: Collaborate, Create, Elevate. A healthcare simulation conference hosted by HealthPartners Clinical Simulation. October 14, 2017, St. Paul, MN
5. **Nelson J.** Panelist: "Curate" with Miner J, and Walsh M. Digital Health Professional Education 2.0: Consume, Curate, Create. August 17, 2017, St. Paul, MN
6. **Nelson, J.** Rapid Response Teams: The First Five Minutes of Badness. Presented at the Minnesota Academy of Physicians Assistants 2017 Spring Conference. March 17, 2017, Brooklyn Park, MN.
7. **Nelson J.** Emergency Medicine Simulation Flea Market. Presented at the Emergency Medicine Leadership Summit 2016 presented by the Minnesota Chapter of the American College of Emergency Physicians. November 14, 2016, Edina, MN
8. **Nelson, J.** Conference Cup as a tool for motivating positive behaviors in EM faculty and residents. For Education Research In Progress series of Medical Educator Development and Scholarship division of the Academic Health Center of the University of Minnesota. May 25, 2016, Minneapolis, MN.
9. **Nelson J.** Rapid Response Teams: The First Five Minutes of Badness. Presented at the HealthPartners Hospital Medicine Update. May 20, 2016, Minneapolis, MN.
10. **Nelson, J.** Department of Emergency Medicine: Focus on Education Research. For Education Research In Progress series of Medical Educator Development and Scholarship division of the Academic Health Center of the University of Minnesota. December 16, 2015, Minneapolis, MN.
11. **Nelson, J.** Beyond Lectures and Email. Presentation at 2015 Annual EMS Educators Teaching & Learning Conference. April 23, 2015, Alexandria, MN.
12. **Nelson, J.** Keeping Rare but Critical Knowledge Fresh. Invited lecture for Trauma Education: The Next Generation. September 5, 2013, Minnesota History Center. www.tetng.org for recording and handouts.
13. **Nelson, J.** Emergency Management of Acute Dyspnea. Invited lecture for South Dakota American College of Emergency Physicians Emergency Medicine Conference. Holiday Inn City Center. March 16, 2013, Sioux Falls, SD
14. **Nelson, J.** The First Five Minutes of Badness. Invited lecture for South Dakota American College of Emergency Physicians Emergency Medicine Conference. Holiday Inn City Center. March 16, 2013, Sioux Falls, SD
15. **Nelson, J.** Car Seats Do Work. Invited lecture for 2012 Toward Zero Deaths Conference, Doubletree by Hilton, Oct 23, 2012, Bloomington, MN
16. **Nelson, J.** The First Five Minutes of Badness. Invited lecture for Internal Medicine Residency , June 18, 2012, Regions Hospital

17. **Nelson, J.** Old School Skills and New School Technology: Revisiting the H&P. Invited lecture at Emergency Medicine and Trauma Update: Beyond the Golden Hour. November 17, 2011, Bloomington, MN
18. **Nelson, J.** The First Five Minutes of Badness. Invited lecture for Internal Medicine Residency, May 31, 2011, Regions Hospital
19. **Nelson, J.** Human Patient Simulator Network 2008“Using High Fidelity Simulation to Train and Troubleshoot Rapid Response Teams” Co-Presented with Gail Johnson. February 21, 2008, Sarasota, FL
20. Hegarty C and **Nelson J.** Regions Mobile Adolescent Unit. Breakout Station at Emergency Medicine & Trauma Update 2007. November 8, 2007, Bloomington, MN
21. Albrecht L, LaVelle B and **Nelson J.** Panel Discussion: “Increasing Rural Emergency Department Nurses’ Confidence in Resuscitation Skills”. Supervised workshop design, editing abstract and presentation. Served as faculty advisor for resident project. September 27-29, 2007, Salt Lake City, UT.
22. **Nelson, J** and Lavelle B. Teamwork on the Front Line: Teaching Teamwork to Improve Patient Safety. Presented at Park Nicollet Leader Learning Day. March 9, 2007, Minneapolis, MN
23. **Nelson, J.** Rapid Response Training with Simulation. Presented at “Lessons from the Minnesota Rapid Response Learning Network”, a 2006 MAPS (Minnesota Alliance for Patient Safety) Patient Safety Conference Post-Conference Session. November 17, 2006, Minneapolis, MN
24. **Nelson, J.** Rapid Response Team. Breakout session for “Transforming Healthcare Education: Improving Outcomes through Multidisciplinary Simulation”. Sponsored by Mayo Continuing Nursing Education and Minnesota State Colleges and Universities Simulation Planning Group. July 28, 2006, Rochester, MN
25. **Nelson, J.** Stimulation with Simulation – for the Western Wisconsin Emergency Nursing Association Spring Symposium. March 23, 2006, Turtle Lake, MN
26. **Nelson, J.** Trauma Case Reviews: The Rest of the Story. Invited lecture at Trauma Tactics 2005. October 2005. Treasure Island Resort and Casino, Red Wing, MN
27. **Nelson, J.** Stimulation through Simulation. Breakout session at Trauma Tactics October 2005. Treasure Island Resort and Casino, Red Wing, MN
28. **Nelson, J.** Using Simulation for New Nurses in New Clinical Situations”- small group breakout for “Transforming Healthcare Education: Using Simulation in Teaching. August 11, 2005, Rochester, MN
29. **Nelson, J.** The Metropolitan State Experience- large group presentation for conference “Transforming Healthcare Education: Utilizing Simulation in Teaching”. August 10, 2005, Rochester, MN

30. **Nelson, J.** What's New in Trauma Resuscitation. Invited lecture for EMS Week at Regina Hospital. May 17, 2005, Hastings, MN.
31. **Nelson, J.** Simulation Exercises in Tox at Clinical Toxicology: A Critical Review and Update, 2009, Bloomington, MN.
32. **Nelson, J.** Trauma Case Reviews, Westfields Hospital physicians and nurses, 2008, New Richmond, WI

Peer-reviewed Oral Presentations at Professional Meetings, Conferences, etc.

Nelson J. A Doctor Walks Into a Cubicle Farm...Lessons Learned While Creating an Emergency Department Intranet Site. Oral Presentation at Society for Academic Emergency Medicine Great Plains Regions Meeting, St. Louis, MO, September 2018.

Hevesi S, Ramey E, and **Nelson J.** Prospective Observational Trial for Shorter versus Longer Emails to Teach ED Staff Members Mass Casualty Incident Plans. Oral Abstract presented by S. Hevesi at the Society for Academic Emergency Medicine Great Plains Regions Meeting, St. Louis, MO, September 2018.

Nelson J, Weiers A. Development of a Novel Process for Rapidly Providing Life-Saving Care to Maximal Patients in a Mass Shooting. Oral Abstract presented by J. Nelson at the Society for Academic Emergency Medicine Great Plains Regions Meeting, St. Louis, MO, September 2018.

Nelson J, Hevesi S. Using Simulation to Test, Tweak, and Teach Disaster Plans. Oral Presentation at Society for Academic Emergency Medicine Great Plains Regions Meeting, St. Louis, MO, September 2018.

Carlson AJ, Dahms RA, Hegarty CB, **Nelson JG,** Binstadt ES. Effect of Simulated Rare Procedures Clinic on EM Faculty Clinical Procedural Knowledge and Confidence. Oral presentation by AJ Carlson. Society for Academic Emergency Medicine, Atlanta, GA, May 2013

Curl ND, Knopp RK, **Nelson JG,** Binstadt ES. Assessment of Knowledge and Skills Related to Informed Consent Among Emergency Medicine Resident Physicians. Oral Presentation by ND Curl. Society for Academic Emergency Medicine Annual Meeting. Phoenix, AZ. June 2010.

Nelson J, Colletti J, Goyal D Combined Conference: Communication – presented at “Education Soundbites” in the Council of Residency Directors for Emergency Medicine Annual Meeting. March 2007. Orlando, FL

LaVelle B, **Nelson J,** and Denning J (presented by LaVelle). Practice Outside the comfort Zone: High-Fidelity Simulation Training Makes Rapid Response Teams more skilled and comfortable in Roles. Nursing Specialty Award winner. Presented at the Society for Critical Care Medicine's 36th Critical Care Congress. February 2007

Poster Abstract Presentations at Professional Meetings, Conferences, etc.

Nelson J, Hegarty J. Email Use and Limitations in an Urban Emergency Department and development of an operations knowledge repository. Poster presented at 2018 Health Care Systems Research Network Conference. Minneapolis, MN. April 11, 2018.

Nelson J, Simon H, Schnitker C, Wewerka S and Mischel-Abramowski E. Cost-Effectiveness of Physician Incentives for Resident Feedback. Poster presented at 2018 Health Care Systems Research Network Conference. Minneapolis, MN. April 11, 2018.

Nelson J, Sazama A, Grall K, and Wewerka S. Preliminary impact of a novel team-based competition on faculty attendance to weekly residency didactics. Poster presented at 2018 Health Care Systems Research Network Conference. Minneapolis, MN. April 11, 2018.

Nelson J, Sazama A, Grall K, Wewerka S. Preliminary Impact of a novel team-based competition on faculty attendance to weekly residency didactics. Electronic poster presented at Society for Academic Emergency Medicine Annual Meeting. Orlando, FL. May 18, 2017.

Nelson J, Sazama A, Grall K, Wewerka S. Preliminary Impact of a novel team-based competition on faculty attendance to weekly residency didactics. Poster presented at Best Practices in Medical Education. Minneapolis, MN. May 5, 2017.

Grall K, **Nelson J**, Hegarty C. Adventures in Didactic Curriculum (Re) Design: Systems Thinking for Core Topics. Electronic poster presented at EM Council of Residency Directors Academic Assembly, Fort Lauderdale, FL. April 28, 2017.

Barringer K, Barrett L, and **Nelson J**. CCC by Wiki. Electronic poster presented at EM Council of Residency Directors Academic Assembly, Fort Lauderdale, FL. April 28, 2017.

Nelson JG, Simon H, Schnitker C, Wewerka S, Mischel-Abramowski. Cost-Effectiveness of Physician Incentives for Resident Feedback. Electronic poster presented at American College of Emergency Physicians Annual Meeting Research Forum, Las Vegas, NV. October 14, 2016

Nelson JG, Simon H, Schnitker C, Wewerka S, Mischel-Abramowski. Cost-Effectiveness of Physician Incentives for Resident Feedback. Poster presented at Society for Academic Emergency Medicine Great Plains Regional Meeting, Iowa City, IA. September 24, 2016

Hegarty C, **Nelson JG**, Barringer K, Binstadt E, Wong M. ABCs of Team Leadership: Using Shift Card Data to Guide Future Education. Electronic poster presented at 2016 Council of Residency Directors in Emergency Medicine Academic Assembly, Education Research and Innovations Forum, Nashville, TN. March, 6, 2016.

Nelson JG. Trauma Education: The Next Generation (of Continuing Education). Poster presented at HealthPartners Celebration of Education and Research, Bloomington, MN September 5, 2013.

Carlson AJ, Dahms RA, Hegarty CB, **Nelson JG**, Binstadt ES. Effect of Simulated Rare Procedures Clinic on EM Faculty Clinical Procedural Knowledge and Confidence. Presented at Society for Academic Emergency Medicine Great Plains Regional Research Forum, St Louis, MO. September 29, 2012

Nelson JG, Woster C, Burnett A, Salzman J, Wewerka S, and Frascone R. Direct Comparison of Video Laryngoscopes in Simulated Difficult Intubations. Poster Presentation. Society for Academic Emergency Medicine Annual Meeting. Boston, MA, June 2011. Principal Investigator, Design of Simulation Apparatus, Recruitment, Data Acquisition.

Nelson JG, Go S, and Anderson C. Using Electronic Medical Records (EMR) to Assess Learner Practice Change as a Result of an Educational Intervention: Results of a Feasibility Study. Poster Presentation. Emergency Medicine Council of Residency Directors Annual Meeting, San Diego, CA, March 2011; Co-Investigator, Faculty Advisor, Workshop design and teaching

Nelson JG, Wewerka SS, Salzman JG, Burnett AM, Woster CM, Griffith KR, Johnston M, and Frascone RJ. Evaluation of Four Different Video Laryngoscopes in a Simulated Difficult Airway Scenario: The EMESIS Trial. National Association of EMS Physicians Annual Meeting, Bonita Springs, FL, January 2011; Principal Investigator, Design of Simulation Apparatus, Recruitment, Data Acquisition.

Nelson JG, Srb N, Flottesmesch T, and Hauge K. Feasibility of Simulation for Teaching and Evaluating Performance of Infrequent Critical Procedures. Poster presentation, 9th Annual International Meeting for Simulation in Healthcare, January 13, 2009, Lake Buena Vista, FL.

LaVelle B, **Nelson JG**. "Using Simulation to Educate Rapid Response Team Members and Troubleshoot Rapid Response Systems". Presented by B. LaVelle at National Patient Safety Foundation Annual Meeting, Washington DC, May 2007. Poster design and editing, lead educator, and designer of workshop described.

Abuzzahab FS, Carlson DM, and **Gillund JM**. Pemoline Augmentation of Selective Serotonin Reuptake Inhibitors. *American College of Neuropsychopharmacology* 36th Annual Meeting Poster Session. Pg. 255, December 10, 1997

Abuzzahab FS, **Gillund JM**, and Zimmerman RL. Serum Pemoline Levels in Adult Attention Deficit Disorder. American Psychiatric Association 149th Annual Meeting—Poster Session. Pg. 265, May 9, 1996

Innovations in Emergency Medicine Education Exhibits

Hegarty CH, Barringer K, **Nelson JG**, Binstadt E and Raghunandan S. ABCs of Team Leadership in Emergency Medicine: A Literature Review and Novel Curriculum. Innovations in Emergency Medicine Education at Society for Academic Emergency Medicine Annual Meeting, May 2012, Chicago, IL. Abstract published in *Acad Emerg Med* 2012, 19:s394-395.

Nelson JG, Dahms RA, and Ankel FK. IEME Exhibit "Thoracotomy Training Without Live Animal - Development of a Pre-fabricated Fiberglass Torso for Training EM Residents Multiple Invasive Truncal Procedures". Innovations in Emergency Medicine Education (IEME) exhibit at the 2010 Society for Academic Emergency Medicine Annual Meeting in Phoenix, Arizona, June 3-6, 2010. Abstract published in *Acad Emerg Med* 2010,17:s206.

Nelson JG, Hegarty CB and Gunnarson TM. Live Action Simulation for Large Groups: A Novel Approach to Residency Conference. Innovation in Emergency Medicine Education exhibit at the 2006 Annual Scientific Assembly of the Society for Academic Emergency Medicine, May 2006.

Other Key Activities and Accomplishments

Panelist: MinnesotaFutura Digital Learning Conference. Moderator: Glenn Paetow. St. Paul, MN. August 17, 2017.

Panelist: Dealing with Serious Illness Among Physicians. Regions Hospital Emergency Medicine Grand Rounds. Moderated by Robert Knopp, MD. May 1, 2014.

Simulation Technology in the Classroom. STARLINK Video and Audioconference; Denning S, Loen M, Patow C, **Nelson J**, LaVelle B. October 5, 2006.

TEACHING AND CURRICULUM DEVELOPMENT

Instructor Rare Procedure Lab for Faculty Emergency Physicians	2012-present
Instructor Femoral Venous Access for Electrophysiology Technicians	2013-present
Emergency Medicine Physician Assistant Critical Care Skills Simulation Workshop Regions Hospital	2010-present
Pediatric Fundamental Critical Care Support, Instructor St. Paul, MN	2010-Present
Suturing Workshop for Occupational Medicine Faculty and Residents Residents	2009-2011
Advanced Cardiac Life Support Instruction	2006-present
Emergency Medical Service Critical Case Reviews Various EMS Stations throughout East Metro St. Paul, MN	2005-Present
Instructor – various lectures and skills stations for physicians, nurses, paramedics Emergency Medical Services Regions Hospital	2004-Present
Fundamental Critical Care Support, Faculty St. Paul, MN	2004-Present
Lecturer in Paramedic Program Inver Hills Community College Paramedic Program Inver Grove Heights, MN	2002-2004

Course/Lecture List

All Bleeding Stops. Lecture for Internal Medicine Resident conference Regions Hospital, St. Paul, MN	2018
American College of Emergency Physicians Simulation Course Instructor (tube thoracostomy, difficult airway) Phoenix, AZ	2015

American College of Emergency Physicians Simulation Course Instructor (tube thoracostomy and cricothyroidotomy, both on cadaveric model) Tampa, FL	2014
American College of Emergency Physicians Simulation Course Instructor (tube thoracostomy and difficult airway, both on part-task trainers) Chicago, IL	2013
Vent 101 – lecture for Hudson Hospital Physicians and Nurses	2009
Rural Physician Associate Program (RPAP) Clinical Skills Day University of Minnesota	2006
Guest Lecturer Wound Care and Repair Metropolitan State University School of Nursing	2006-2009
Emergency Medicine Medical Student Resuscitation Workshop Instructor	2005-2009
Emergency Medicine Residency Core Content Regions Hospital Emergency Medicine Residency	2005-present
Emergency Medicine Invasive Procedure Lab (Instructor) Regions Hospital Emergency Medicine Residency	2005-present
Ankle injuries; short lecture for EM teaching rounds	2004
Emergency Medicine Critical Case Conference Regions Hospital Emergency Medicine Residency	2003-present
Lecture Series on forensics in emergency medicine	
• Ballistics	2003
• Child Abuse (with Nancy Harold)	2002
Curriculum Development	
Core Faculty Content “Guru” – Pulmonary/Thoracic Coordinated monthly conference theme and guest speakers Delivered content	2016-present
Advanced Airway Skills Workshop associated with Trauma Education: The Next Generation	2013
Advanced Vascular Access workshop Andersen Grant for training physicians working in rural Emergency Departments	2012
Rare Procedure workshop Andersen Grant for training physicians working in rural Emergency	2012

Departments (Osceola Medical Center, Amery Regional Medical Center, Lakeview Hospital, Westfields Hospital)

Advanced Peripheral IV Skills for Nursing Workshop as part of Emergency Medicine & Trauma: Beyond The Golden Hour	2012
Central Venous Catheterization – Instructor Course Course designed with Dr. Petr Bachan for Internal Medicine faculty	2011
Central Venous Catheter Insertion Course for residents Course designed primarily for IM and EM residents	2011
Invasive Procedure Laboratory for Emergency Medicine Residency Curriculum design, simulation model design Regions Hospital	2009-Present
Emergency Medicine PGY-1 Procedure Orientation Developed course concepts for Emergency Medicine Curriculum, faculty recruitment, instruction Regions Hospital	2009-Present
Internal Medicine PGY2 Procedure Workshop Series Code Blue management; Lumbar puncture, thoracentesis, paracentesis; Central Venous Access	2009-2010
PGY-1 Procedure Orientation – Internal Medicine Developed course concepts and logistical support for orientation	2008-2009
Introduction to High-Performance Team Behavior in Emergency Departments	2005-2006
Rapid Response Team training Workshops for multidisciplinary teams across Minnesota Hospitals	2006-2009
American College of Emergency Physicians Task Force for the Development of an Educational Toolbox For Alcohol Screening and Intervention in the Emergency Department	2005

Collaborative Efforts and Activities

Jessie Nelson, MD, Rochelle Zarzar, MD. Simulation instructors for Myocarditis in Pediatric Patient. 2018 Annual Regions-Hennepin Emergency Medicine Combined Simulation Conference. May 10, 2018. St. Paul, MN	2018
2 nd Annual iMedEd Hack-a-thon at Council of Residency Directors for Emergency Medicine Academic Assembly. Assisted participants working Through design thinking challenge	2017
Emergency Medicine Physician Assistant Training Day	2016

Review of nitrous oxide for sedation and compartment pressure monitor St. Paul, MN	
Rare Procedure Lab for Emergency Medicine Faculty Instructor, Planning Committee St. Paul, MN	2012-Present
Orientation to facilitating medical student resuscitation workshop Regions Hospital	2011
Annual Combined Emergency Medicine Conference with Hennepin County Medical Center Emergency Medicine Program. Various roles. Mpls/St.Paul, MN	2009-current
North Memorial EMS – facilitated simulation practice for METI Cup (A competition for ambulance crews)	2008
Lifelong Learning and Self-Assessment Review, Planning Committee and Lecture Bloomington, MN	2007
Mock Oral Boards for Emergency Medicine Residents Regions Hospital St. Paul, MN	2006-Present
Combined Emergency Medicine Conference with Mayo, Cannon Falls, MN	2006
Pediatric Case Simulations for Emergency Medicine Residents (With Jeahan Hanna)	2006
Emergency Medicine Physician Assistant Critical Care Skills Day St. Paul, MN	2005-present
Toxicology Case Simulations for students and residents on Toxicology Rotation (with Kristen Engebretson)	2005-2006

Faculty Development Activities regarding teaching

The Path to Publication: A Workshop on Preparing Peer-Reviewed Manuscripts University of Minnesota Medical School	2015
Minnesota E-Learning Summit Minneapolis Community and Technical College	2015
Medical Education Research Certificate	2011-2012
Faculty Development training in use of simulation technology and innovative educational techniques	2009-current

Regions Hospital

Comprehensive Workshop in Medical Simulation Cambridge, MA	2005
American College of Emergency Physicians Teaching Fellowship Dallas, TX	2004-2005
Navigating the Academic Waters track at Society of Academic Emergency Medicine Washington, DC	2004
University of Minnesota Grant Writing Workshop	2004

Continuing Medical Education

Healthcare Leadership for Mass Casualty Incidents, sponsored by the Center For Domestic Preparedness, part of the Federal Emergency Management Agency (FEMA)	2017
Federal Emergency Management Agency Independent Study Coursework	
IS-100.B: Introduction to Incident Command System, ICS-100	2017
IS-200.B: ICS for Single Resources and Initial Action Incidents	2017
IS-700.A: National Incident Management System, An Introduction	2017
MGT-348: Medical Preparedness & Response for Bombing Incidents	2017
Participant, Chair Development Program, Association of Academic Chairs Of Emergency Medicine	2017
Society for Academic Emergency Medicine Grant Writing Workshop	2016
The Path to Publication Workshop, University of Minnesota Academic Health Center Minneapolis, MN	2015
Institute for Healthcare Improvement (IHI) Open School	2012
• Quality Improvement 101 – Fundamentals of Improvement	
• Quality Improvement 102 – The Model for Improvement	
• Quality Improvement 103 – Measuring for Improvement	
• Quality Improvement 104 – Putting It All Together	
• Quality Improvement 105 – The Human Side of Quality Improvement	
• Quality Improvement 106 – Level 100 Tools	
Eight Things – online training in Web 2.0 tools through Regions Hospital Medical Library	2009

ADVISING AND MENTORING

Undergraduate Student Activities

Undergraduate advising

Ben Eide (research projects before and during medical school)	2107-current
Krista Carlson (research elective)	2016
Ashley Xiong (educational research projects)	2016
Khuong Vuong	2001
Brittani Conway	2011

Post-doctoral fellows supervised

Danielle Hart – simulation fellow at HCMC	2009
Intermittent discussions about simulation and set-up of new center	

Emergency Medicine Residents Mentored

Ifra Ali, MD	2017-2018
Zlata Vladover , MD	2015-2018
Jacqueline Kelly, MD	2014-2017
Kendal Farrar, MD	2013-2016
Amanda Miller, MD	2012-2015
Jenna LeRoy, MD	2011-2014
Adetolu Oyewo, MD	2010-2013
Ben Watters, MD	2009-2012
Autumn Erwin, MD	2008-2011
Heather Ellsworth, MD	2007-2010
Joey Charles, MD	2005-2008

Resident Scholarly Activity Mentored

Diliana Stoimenova	2018-current
Andrea Weiers	2017-current
Sarah Mott	2017-2018
Sara Hevesi	2017-current
Robert Welborn	2017-current
Hilary Simon	2016-2018
Callie Schnitker	2016-2018
Alan Sazama	2016-2017
Casey Woster	2010-2011
Shani Go	2010-2011
Natasha Srb	2008-2009
Scott Donner	2007-2008
Luke Albrecht	2006-2007

Other Mentoring Activities *[including serving as a mentor or member of a mentoring committee for a faculty member, etc.]*

Faculty Mentorship – Michael Paddock, DO	2016-present
Mentored colleagues in using SharePoint as tool for intradepartment Communication	2016-present
<ul style="list-style-type: none"> Emergency Medicine staff (Ryan Bourdon, MD; Karen Quaday, MD) 	

- Other departments (Radiology, Orthopedics)
- Our site (EDNET) is the example used by Information Services & Technology when advising new SharePoint users

SimWARS Team Mentorship – University of Minnesota Medical Students At Society for Academic Emergency Medicine Great Plains Regional Meeting, Springfield, IL	2013
SimWARS Team Mentorship – Regions Emergency Medicine Resident Team At Society for Academic Emergency Medicine Annual Meeting, New Orleans, LA	2009
Mentored faculty in using simulation for teaching activities	2009-present
Mentored assigned medical students on advanced EM rotations	2005-present

Quality Improvement Projects

Critical Intake – Development of a novel strategy for rapidly caring for Penetrating trauma victims in a Mass Casualty Incident	2017-current
Project PREPARED – Periodic Refresher Emails to Prevent Atrophy of Rarely Executed Designs	2017-2018
Developed Emergency Department Extubation Guideline and Ventilator Order Set with EM residents as part of core content education	2013

Clinical Service Responsibilities

1136 clinical emergency medicine hours in 2018 (scheduled)
 1058.25 clinical emergency medicine hours in 2017
 984.5 clinical emergency medicine hours in 2016 (exclusively night shifts)
 1084 clinical emergency medicine hours in 2015 (exclusively night shifts July-Dec)
 1219.5 clinical emergency medicine hours in 2014
 1328 clinical emergency medicine hours in 2013
 1307 clinical emergency medicine hours in 2012

PROFESSIONAL SERVICE AND PUBLIC OUTREACH

Service To The Discipline/Profession/Interdisciplinary Area(s)

Editorships/Journal Reviewer Experience

Reviewer Journal: <i>Academic Emergency Medicine: Education and Training</i>	2016-current
Reviewer American Academy of Medical College <i>MedEdPORTAL</i> Simulation Case Library	2007-Present

Reviewer 2006-Present
Journal: *Simulation in Healthcare*

Reviewer 2006-2016
Journal: *Academic Emergency Medicine*

Organization of conferences, workshops, panels, symposia

Emergency Medicine & Trauma Update 2016

- Co-Course Directory
- Presentation – Case Discussion—Multiple Patients from a house fire
- Recruited speakers

Trauma Education: The Next Generation 2013-2015
St. Paul, MN
www.tetng.org

- Co-Course Director
- Lecture – Keeping Rare but Critical Knowledge Fresh
- Recruited speakers
- Coordinated “Curbside Consult” videos
- Organized optional airway workshop

Emergency Medicine & Trauma Update 2012: Beyond the Golden Hour 2012
St. Paul, MN

- Co-Course Director
- Directed and Taught Pre-Conference Workshop on central lines and chest tubes

Emergency Medicine & Trauma Update 2011: Beyond the Golden Hour 2011
Bloomington, MN

- Lecture – Old School Tricks and New School Technology
- Planning Committee
- Coordinated Breakout Track

Emergency Medicine & Trauma Update 2010 2010
Bloomington, MN

- Planning Committee Member

Emergency Medicine & Trauma Update 2009 2009
Bloomington, MN

- Planning committee member
- Panel moderator
- Course Director for associated vascular access workshop

Emergency Medicine & Trauma Update 2008 2008
Bloomington, MN

- Planning committee member
- Panel moderator

Committee memberships [indicate if the candidate served as chair]

Emergency Medicine Department Executive Committee	2018-current
Center for Women in Medicine and Science, University of Minnesota, Mentoring Action Group, member	2018-current
Regions Hospital Disaster Committee, member	2017-current
Regions Emergency Department Mass Casualty Incident and Decontamination Operating Committee, Co-Chair	2017-current
Chair, Regions Emergency Medicine Education Research Group	2016-present
Emergency Department Mass Casualty Incident and Decontamination Operations Committee, Co-Chair	2016-present
University of Minnesota Department of Emergency Medicine Education Research Incubator	2015-2018
Clinical Competency Committee, Regions Emergency Medicine Residency	2015-current
Emergency Medicine Department Research Committee, Member	2015-current
EDNET (department intranet site) Management Team, Chair	2014-current
EMD Communication Committee, Chair	2013-2014
EMD Communication Committee, Member	2012-2013
Regions Hospital Medical Library Advisory Committee	2010-Present
Regions Hospital Clinical Simulation Advisory Committee	2010-Present
Regions Hospital Code II Quality Improvement and Peer Evaluation	2009-2011
Regions Hospital Emergency Medicine Simulation Committee	2008-Present
Society for Academic Emergency Medicine Technology in Medical Education Committee	2007-2010
Society for Academic Emergency Medicine Simulator Task Force	2006-2007
Residency Affairs Committee Regions Hospital Emergency Medicine Residency	2005-Present
<hr/> <u>Service to institutions</u>	
Networking between medical specialties to coordinate Mass Casualty Incident response	2018-current

Clinical Learning Environment Review (CLER) Faculty Panel Member	2016
Interdepartmental workshop to standardize pneumothorax management and create outpatient spontaneous pneumothorax pathway	2015
Emergency Medical Department Website Optimization Project	2013-present
<ul style="list-style-type: none"> • Distributed author of Emergency Center page on regionshospital.com • Developing new intranet site, Oracle WebCenter platform 	
Development of updated Regions Emergency Medicine Intranet site (EDNET)	2013-present
Distributed author for public facing web site for Regions Emergency Center. http://www.regionshospital.com/rh/specialties/emergency-center/index.html	2013-present
HealthPartners Web Customer Relations training	2012
Regions Hospital Emergency Department Provider Documentation Committee	2012
Television interview about Dental Care in the Emergency Department Fox 9 news – Jeff Baillon http://www.myfoxtwincities.com/story/19094338/investigators-root-of-the-problem	2012
Tried using webinar software (WebEx) for Critical Case Conference Regions Hospital St. Paul, MN	2012
Tried Dragon Naturally Speaking for Emergency Medicine Department Regions Hospital	2011-2012
Participant, LEAN process for Emergency Medicine Triage Process	2011
Going fishing Sat.? Don't Get Hooked. Newspaper interview with Star Tribune, Josephine Marcotty. http://www.startribune.com/sports/outdoors/93731844.html	2010
Video – Fish Hook Injuries for Regions Hospital Public Relations https://www.youtube.com/watch?v=ZYjNhX8S4p4	2010
Doc Hollywood - radio interview for public education and public relations	2009-2012
<ul style="list-style-type: none"> • Acetaminophen overdose and drowning – 2012 • Shoulder Dislocations – 2009 	
WCCO radio interview – Summer Emergencies	2009
Public Relations Training, Regions Hospital	2006
Community Outreach Activities	
Lecture to high school students about Emergency Medicine Minnesota Math and Science Academy	2015

Girl Scout Troop 55129 Co-Troop Leader	2015-present
Girl Scout Troop 55129 First Aid Badge Event – tour of ED, learning stations, made first aid kits	2014
Discussed Physician Career with Kindergarten Class	2010, 2014
Volunteer Physician United States Figure Skating Championship Xcel Energy Center St. Paul, MN	2008
Stadium Physician Xcel Energy Center Minnesota Wild, NHL	2001-Present