

Jennifer Noel Fishe, MD

Assistant Professor of Emergency Medicine
Associate Medical Director, Pediatric Emergency Department
Director, UF Center for Data Solutions
University of Florida College of Medicine – Jacksonville

Associate Medical Director for Pediatrics
Nassau County Fire Rescue
City of Fernandina Beach Fire Rescue

PLACE OF BIRTH

1984 Miami Shores, Florida, United States of America

EDUCATION

2007 B.S. Massachusetts Institute of Technology (MIT) (Biology)
2011 M.D. University of Miami Miller School of Medicine

POSTGRADUATE MEDICAL TRAINING

2011-2014 Residency - Pediatrics, The Children's Hospital of Philadelphia
2014-2017 Fellowship - Pediatric Emergency Medicine, Johns Hopkins University

MEDICAL BOARD CERTIFICATIONS

2014-present Diplomat – American Board of Pediatrics, General Pediatrics
2019-present Diplomat – American Board of Pediatrics, Pediatric Emergency Medicine

CURRENT EMPLOYMENT

2017-present University of Florida College of Medicine - Jacksonville
2019-present Nassau County Fire Rescue Department
2020-present City of Fernandina Beach Fire Rescue Department

PREVIOUS EMPLOYMENT

2011-2014 Pediatric Resident
Children's Hospital of Philadelphia, Philadelphia, PA

2014-2017 Pediatric Emergency Medicine Fellow
Johns Hopkins University, Baltimore, MD

2015-2017 Staff Physician, Pediatric Emergency Department
Howard County General Hospital, Columbia, MD

HONORS AND AWARDS

2021 Outstanding Researcher Award

	UF College of Medicine – Jacksonville, Dept of Emergency Medicine
2020	Philip H. Gilbert Young Physician Leadership Award Duval County Medical Society
2020	Exemplary Teacher Award UF College of Medicine
2018	Faculty Evidence-Based Medicine Award UF College of Medicine – Jacksonville, Dept of Emergency Medicine
2018	Faculty “Rookie of the Year” Award UF College of Medicine – Jacksonville, Dept of Pediatrics
2013	Eastern Society for Pediatric Research - Travel Award
2007-2011	University of Miami Medical Trustee Scholarship
2006-2007	Howard Hughes Medical Grant - Research Stipend Tyler Jacks Laboratory, MIT Center for Cancer Research
2005	Lord Foundation Grant - Research Stipend Andrew Chess Laboratory, Whitehead Institute for Biomedical Research, MIT

PROFESSIONAL MEMBERSHIPS

2014-present	Diplomat, American Board of Pediatrics
2016-present	National Association of EMS Physicians (NAEMSP)
2016-present	Prehospital Guidelines Consortium
2017-present	Duval County Medical Society
2017-present	Society for Academic Emergency Medicine

PUBLICATIONS

*Denotes trainee/mentee

PEER-REVIEWED PUBLICATIONS

Buscher JF*, **Fishe JN**, Hendry PL, Bertrand AM, Schmidt AC, Helmi H. “Temporal and Environmental Trends in Pediatric Submersion: A Year-round Phenomenon.” *The Florida Pediatrician*. 2021. [Accepted for publication].

Anders JF, **Fishe JN**, Fratta KA, Katznelson JH, Levy MJ, Lichenstein R, Millin MG, Simpson JN, Walls TA, Winger H. “Creating a Pediatric Prehospital Destination Decision Tool using a Modified Delphi Method.” *Children*. 2021;8:658. <https://doi.org/10.3390/children8080658>.

Finlay E, Palmer S, Abo B, Abes B, **Fishe JN**. “Clinical, Operational, and Socioeconomic Analysis of EMS Bypass of the Closest Facility for Pediatric Asthma Patients.” *Western Journal of Emergency Medicine*. 2021. DOI: 10.5811/westjem.2021.4.50382. *EPub Ahead of print*.

*Schonenberg Llach MR, **Fishe JN**, Yorkgitis B. “Implementation of a dual cervical spine and blunt cerebrovascular injury assessment pathway for pediatric trauma patients.” *American Journal of Emergency Medicine*. 2021;47:74-79. doi: 10.1016/j.ajem.2021.03.024. PMID: 33780736. *EPub Ahead of print*.

Richards C, **Fishe JN**, Cash RE, Rivard MK, Brown KM, Martin-Gill C, Panchal AR, On Behalf of the Prehospital Guidelines Consortium. “Priorities for Prehospital Evidence-Based Guideline

Development: A Modified Delphi Analysis." *Prehospital Emergency Care*. 2021 Mar 16;1-20. DOI: [10.1080/10903127.2021.1894276](https://doi.org/10.1080/10903127.2021.1894276). PMID: 33625309

Fishe JN, Labilloy G, *Higley R, Casey D, Ginn A, Baskovich B, Blake KV. "Single nucleotide polymorphisms (SNPs) in PRKG1 and SPATA13-AS1 are associated with bronchodilator response: a pilot study during acute asthma exacerbations in African American children." *Pharmacogenomics and Genetics*. 2021. DOI: 10.1097/FPC.0000000000000434. PMID: 33851947.

Hu H, Zheng Y, Wen X, Smith SS, Nizomov J, **Fishe J**, Hogan WR, Shenkman EA, Bian J. "An external exposome-wide association study of COVID-19 mortality in the United States." *Science of the Total Environment*. 2021;768:144832. DOI: <https://doi.org/10.1016/j.scitotenv.2020.144832>. PMID: 33450687.

Fishe JN, Brailsford J. "Out with the Old and in with the New: De-Implementation in Emergency Medicine." *Academic Emergency Medicine*. 2021;28(2):268-270. PMID: 33249685.

Fratka KA, **Fishe JN**, Anders P, Anders JF. "Improving EMS Destination Choice for Children with a Destination Decision Tool." *American Journal of Emergency Medicine*. 2020:S0735-6757(20)30819-6. doi: 10.1016/j.ajem.2020.09.025. PMID: 33039231.

Fishe JN, Hendry P, Brailsford J, Salloum RG, Vogel B, Finlay E, Palmer S, Datta S, Hendeles L, Blake KV. "Early Administration of Steroids in the Ambulance Setting: Protocol for a Type I Hybrid Effectiveness-Implementation Trial with a Stepped Wedge Design." *Contemporary Clinical Trials*. 2020 Oct;97:106151. <https://doi.org/10.1016/j.cct.2020.106141>.

Fishe JN, *Higley RK, Casey D, Hogans L, Wylie TW, Hendry PL, Henson M, Bertrand A, Blake KV. "Methods and Implementation of a Pediatric Asthma Pharmacogenomic Study in the Emergency Department Setting." *Pharmacogenetics and Genomics*. 2020;30:201-207. PMID: 33017130.

Millin MG, Bogumil D, **Fishe JN**, Burke R. "Comparing the Two-finger versus Two-thumb Technique for Single Person Infant CPR: A Systematic Review and Meta-Analysis." *Resuscitation*. 2020 Mar 1;148:161-172. doi: 10.1016/j.resuscitation.2019.12.039. Epub 2020 Jan 20. PMID: 31972228.

*Odia O, Yorkgitis B, Gurien L, Hendry P, Crandall M, Skarupa D, **Fishe JN**. "An Evidence-Based Algorithm Decreases Computed Tomography Use in Hemodynamically Stable Pediatric Blunt Abdominal Trauma Patients." *The American Journal of Surgery*. 2020:482-488. <https://doi.org/10.1016/j.amjsurg.2020.01.006>. PMID: 31932078.

Lynch S, **Fishe JN**. "National Trends in Emergency Department Boarding of Psychiatric Patients, 2011-2015." *Emergency Psychiatry - Journal of the American Association for Emergency Psychiatry*. 2019 Issue, pgs 5-6.

*Fernandez-Goytizolo D, Hendry P, **Fishe JN**. "Pediatric Prehospital Analgesia's Association with Emergency Department (ED) Care and Outcomes." *Prehospital Emergency Care*. [Abstract] 2020. DOI 10.1080/10903127.2019.1666945.

*McManus K, Finlay E, Palmer S, Anders JF, Hendry P, **Fishe JN**. "A Statewide Analysis of Reason for EMS' Pediatric Destination Choice." *Prehospital Emergency Care*. 2020;24(5):672-83. PMID: 31815580.

Restrepo DJ, Sisti A, Boczar D, Huayllani MT, **Fishe J**, Gabriel E, McLaughlin SA, Bagaria S, Spaulding A, Rinker BD, Forte AJ. "Characteristics of Breast Cancer Patients Who Refuse Surgery." *Anticancer Res*. 2019;39(9):4941-4945.

Fishe JN, Bian J, Chen Z, Hu H, Min J, Modave F, Prospero M. "Prodromal comorbidity spectrum and ecological correlates of asthma syndrome in adults: A 10-year statewide big data analysis." *Journal of Asthma*. 2020;57(11): 1155-1167. PMID: 31288571.

Fratta K, **Fishe JN**, Anders JF. "Scenario-based Pilot Testing of EMS Provider Interpretation of a Novel Pediatric Triage Protocol." *Western Journal of Emergency Medicine*. 2019;20(6):vii.

Tsou PY, Chen KP, Wang YH, **Fishe JN**, Gillon J, Lee CC, Deanehan JK, Kuo PL, Yu DTY. "Diagnostic accuracy of lung ultrasound performed by novice versus advanced sonographers for pneumonia in children: A systematic review and meta-analysis." *Academic Emergency Medicine*. 2019;26(9):1074-1088.

Fishe JN, Finlay E, Palmer S, Hendry P. "A Geospatial Analysis of Distances to Hospitals that Admit Pediatric Asthma Patients." *Prehospital Emergency Care*. 2019;23:882-886.

Fishe JN, Lynch S. "Pediatric behavioral health-related EMS encounters: A statewide analysis." *Prehospital Emergency Care*. 2019;23(5):654-662.

Fishe JN, Palmer E, Finlay E, Smotherman C, Gautam S, Hendry P, Hendeles L. "A statewide study of the epidemiology of emergency medical services' management of pediatric asthma." *Pediatric Emergency Care*. 2019. DOI: 10.1097/PEC.0000000000001743. PMID: 30829849.

Fishe JN, Psoter KP, Anders JF. "Emergency Medical Services Bypass of the Closest Facility for Pediatric Patients." *Prehospital Emergency Care*. 2019;23:485-90.

Fishe JN, Gautam S, Blake K, Hendry P, Hendeles L. "Emergency Medical Services Administration of Systemic Corticosteroids for Pediatric Asthma: A Statewide Study of Emergency Department Outcomes." *Academic Emergency Medicine*. 2019;26(5):549-51.

Fratta KA, **Fishe JN**, Anders JF, Smith TG. "Introduction of a new EMS protocol using the communities of practice educational model." *Prehospital and Disaster Medicine*. 2019;Jan 11(1-2). doi: 10.1017/S1049023X18001267. PMID: 30630539.

Aledhaim A, **Fishe JN**, Hirshon JM, Anders JF. "Pediatric Conditions Requiring Interfacility Transport from Emergency Departments: A Statewide Study of Regionalization." *Pediatric Emergency Care*. 2021;37:e319-323.

VanGraafeiland B, Foronda C, Vanderwagen S, Allan L, Bernier M, **Fishe JN**, Hunt EA, Jeffers JM. "Improving handover and transport of critically ill pediatric patients." *Journal of Clinical Nursing*. 2019;28(1-2):56-65. DOI: 10.1111/jocn.14627. PMID: 30016565.

Fishe JN, Crowe RP, Cash RE, Nudell NG, Martin-Gill C, Richards CT. "Implementing Prehospital Evidence-Based Guidelines: A Systematic Literature Review." *Prehospital Emergency Care*. 2018;22(4):511-519.

Fishe JN, Psoter K, Klein BL, Anders JF. "A Retrospective Evaluation of Risk Factors for Pediatric Secondary Transport." *Prehospital Emergency Care*. 2018;22:41-49.

Noje C, **Fishe JN**, Costabile PM, Klein BL, Hunt EA, Pronovost PJ. "Interhospital Transport of Children Undergoing Cardiopulmonary Resuscitation: A Practical and Ethical Dilemma." *Pediatric Critical Care Medicine*. 2017;18(10):e477-81.

Fishe JN, Wilson ME, Ogborn J, Kane A, Baker MD. "EMR Tracking Reduces Pediatric ED Consult Times." *Jacobs Journal of Emergency Medicine*. 2017;4(1):037.

Fishe JN. "Needle in a haystack: When syncope is not benign." *Clinical Pediatrics*. 2016;55(13):1263-1265.

Fishe JN, Marchese RL, Callahan JM. "Lyme myocarditis presenting as chest pain in an adolescent female." *Pediatric Emergency Care*. 2016;32(7):459-461.

Fishe JN, Luberti AA, Master CL, Robinson RL, Grady MF, Arbogast KB, Zonfrillo MR. "After-hours call center triage of pediatric head injury: Outcomes after a concussion initiative." *Pediatric Emergency Care*. 2016;32(3):149-153.

NON-PEER REVIEWED PUBLICATIONS

Llach MS, **Fishe JN**, Yorkgitis BK. "Authors response to reader's letter: Creating an evidence-based pathway for assessing and managing cervical spine and BCV injury in pediatric trauma population." [Letter]. *Am J Emerg Med*. 2021;44:462-463.

Millin MG, Bogumil D, **Fishe JN**, Burke R. "Reply to: Comment on "Comparing the two-finger versus two-thumb technique for single person infant CPR: A systematic review and meta-analysis". [Letter]. *Resuscitation*. 2020;150:197. doi: 10.1016/j.resuscitation.2020.02.041. PMID: 32220581.

Fishe JN, Okorji O, Blake K. "EMS, Pre-Hospital Evaluation and Treatment of Asthma in Children." *StatPearls*. Treasure Island (FL): StatPearls Publishing, 2021. PMID: 30480949.

Fratta KA, **Fishe JN.** "EMS, Pediatric Safety and Secondary Transport." *StatPearls*. [Internet]. Treasure Island (FL): StatPearls Publishing, 2020. PMID: 30020606.

Fishe JN, Moffat III FL. "Child abuse and the law." *Clinical Pediatric Emergency Medicine*. 2016;17(4):302-311.

Dubrovsky, E, **Fishe, JN.** Augmentation and reversal of the apoptotic effects of proteasome inhibition using RNAi. *MIT Undergraduate Research Journal*; 2006;14:31-36.

BOOK CHAPTERS

Fishe JN. "Pediatric Trauma Priorities." *Emergency Medical Services: Clinical Practice and Systems Oversight*, 3rd Edition. Wiley & Sons, Inc. Hoboken, New Jersey. [In press].

Fishe JN, Hendry P. "Pediatric Burns." *Strange and Schafermeyer's Pediatric Emergency Medicine*, 5th Edition. 2019. McGraw-Hill Education, New York.

Anders JF, **Fishe JN, Yu D, Cohen A.** "Urinary Complaints." Section II No. 21. *Urgent Care Medicine Secrets*. 1st Edition. Elsevier. Editors: Robert Olympia, Rory O'Neill, Matthew Silvis. 2017. ISBN 9780323462150.

RESEARCH PRESENTATIONS

National / Platform Presentations

Fishe JN, Labilloy G. "Machine Learning & EMS Data: What are the Possibilities and Where Do I Start?" National Association of EMS Physicians Annual Meeting, January 2021. 2021 [Virtual presentation due to COVID-19].

Fishe JN, Hendry P. "Challenges and Opportunities for Rural Prehospital Pediatric Care" National Association of EMS Physicians Annual Meeting, January 2020. San Diego, CA.

Fishe JN, Anders JF. "Optimizing EMS Destination Choice for Pediatric Patients." HRSA-EMSC National Webinar, June 21, 2019.

Fishe JN, Anders JF. "Optimizing EMS Destination Choice for Pediatric Patients." National Association of EMS Physicians Annual Meeting, January 2019. Austin, TX.

Oral Presentations

Sheikh S, Schmitzberger M, Liao R, Brailsford J, **Fishe JN**, Norse A, Webb K, Spindle N, Suffield D, Hendry P, Kiel J, Eraso D. "Preliminary Results of PAMI-ED ALT: An Emergency Department Opioid-Alternatives Program." American College of Emergency Physicians Research Forum Annual Meeting 2021, 10/27/2021. Boston, MA.

Fedele D, LeFave E, **Fishe JN**. "Implementation of Easy Breathing in Rural Primary Care Clinics." Primary Care Innovations Virtual Conference. April 2021. University of Florida.

Magoc T, Harle C, Galvan-Miyoshi Y, Deason D, **Fishe JN**, Labilloy G, Tfirm I, Lipori G. "Rapid Creation of a De-Identified COVID-19 Dataset for Clinical Research." America Medical Informatics Association 2021 Virtual Informatics Summit. March 2021 2021 [*Virtual oral presentation due to COVID-19*].

Richards C, **Fishe JN**, Cash R, Panchal A, Brown K, Rivard M, Martin-Gill C. "Priorities for Prehospital Evidence-Based Guideline Development: A Modified Delphi Analysis." National Association of EMS Physicians Annual Meeting 2021 [*Virtual oral presentation due to COVID-19*].

Harris M, **Fishe JN**, D'Acunto S, Crowe R, Adelgais K, Anders JF. "Applying a Set of Termination of Resuscitation Criteria to Pediatric Out-of-hospital Cardiac Arrest." National Association of EMS Physicians Annual Meeting 2021 2021 [*Virtual oral presentation due to COVID-19*].

Fishe JN. "RePEAT: Researching Precision Emergency Asthma Treatment." University of Florida CTSI Precision Health Forum. June 2, 2020.

*Buscher J, **Fishe JN**, Hendry P, Schmidt A, Helmi H. "Temporal and Environmental Trends in Pediatric Submersion: A Year-round Phenomenon." Society for Academic Emergency Medicine National Conference. Denver, CO. 2020. [*Accepted for oral presentation – conference cancelled due to COVID 19*]

*Schonenberg MR, **Fishe JN**, Yorkgitis B. "Implementation of a Dual Pediatric Cervical Spine and Blunt Cerebrovascular Injury Pathway." Society for Academic Emergency Medicine National Conference. Denver, CO. 2020. [*Accepted for oral presentation – conference cancelled due to COVID 19*]

*Fernandez D, Hendry P, **Fishe JN**. "Pediatric Prehospital Analgesia's Association with ED Care and Outcomes." National Association of EMS Physicians Annual Meeting 2020. San Diego, CA.

Fratia K, **Fishe JN**, Anders JF. "Creating an Evidence-Based Pediatric Prehospital Destination Tool via a Modified Delphi Method." American College of Osteopathic Emergency Physicians Fall Scientific Assembly, 2019. Austin, TX. November 3, 2019.

*Odia, O, Hendry P, Yorkgitis B, **Fishe JN**. "Success of a Blunt Abdominal Trauma Algorithm in Decreasing CT Scans in Hemodynamically Stable Children." Society for Academic Emergency Medicine. May 2019, Las Vegas, NV.

Fratia K, **Fishe JN**, Anders JF. "Pilot Testing of a Novel Pediatric EMS Destination Decision Tool."

American College of Osteopathic Emergency Physicians Scientific Assembly, October 2018. Chicago, IL.

Fishe JN, Psoter KJ, Anders JF. "EMS Bypass of the Closest Hospital for Pediatric Patients Varies Significantly by Socioeconomic Status."
American Academy of Pediatrics National Conference and Exhibition, 2018. Orlando, FL.

Anders JF, Fratta KA, **Fishe JN**. "Creating an evidence-based pediatric prehospital destination tool (PDTree): An expert panel process using a modified-Delphi method."
American Academy of Pediatrics National Conference & Exhibition, 2017.

Award: Best Oral Presentation

Aledhaim A, Hirshon JM, **Fishe JN**, Anders JF. "Conditions requiring emergent pediatric interfacility transport: Analysis of a statewide EMS system."
American Academy of Pediatrics National Conference & Exhibition, 2017.

Fishe JN, Stineman MG, Zhang X, Zonfrillo MR. Disparities in functional outcomes by race, ethnicity, and insurance status following injury-related inpatient rehabilitation.
Eastern Society for Pediatric Research, 2013.

Poster Presentations

Hendry P, Suffield D, Sheikh S, Spindle N, Schmitzberger M, Velasquez E, Lott M, **Fishe JN**, Johnson B, Webb LK, Norse A. "Preliminary Results from an Emergency Department Pain Coach Service and Discharge Toolkit Pilot Project During COVID-19." American College of Emergency Physicians 2021 Research Forum. October 25-28, 2021. [*Accepted for presentation*].

Sheikh S, **Fishe JN**, James DE, Henson M, Kalynych C, Bowman J, Norse A, Hendry P. "Comparing the Numeric Rating and Defense Veterans Pain Scales in Patients Revisiting the Emergency Department." American Academy of Pain Medicine's 37th Annual Meeting. [*Virtual format due to COVID-19*]. April 23-25, 2021.

Owusu-Ansah S, Harris M, **Fishe JN**, Alter R, Adelgais K, Lyng J, Perry A, Cercone A, McCans K, Panchal A, Hendry P, Cicero M. "State EMS Interim Guidance and Protocol Changes In Response to the COVID-19 Pandemic: A National Investigation." National Association of EMS Physicians Annual Meeting 2021 [*Virtual poster presentation due to COVID-19*].

Fishe JN, Finlay E, Palmer S, Abes B, Abo B. "An Updated Assessment of Network Analyst's Prediction of Actual EMS Transport Times." National Association of EMS Physicians Annual Meeting 2021 [*Virtual poster presentation due to COVID-19*].

Harris M, D'Acunto S, Crowe R, Adelgais K, Anders JF, **Fishe JN**. "Combining traditional biostatistical analysis with natural language processing to identify new factors associated with Return of Spontaneous Circulation after Pediatric Out-of-Hospital Cardiac Arrest." National Association of EMS Physicians Annual Meeting 2021 [*Virtual poster presentation due to COVID-19*].

Fedele D, Hollenbach J, Amburgey D, Evans CM, **Fishe JN**, Langton C, Lefave E, Gurka M. "Reducing asthma morbidity in rural communities via implementation of easy breathing." National Institutes of Health 13th Annual Conference on the Science of Dissemination and Implementation. Virtual Conference, December, 2020.

Esma R, Kendall H, Guerrier C, Labilloy G, Norez D, Tfirm I, **Fishe JN**. "The visual evolution of a COVID-19 dashboard: Merging clinical operations with public health." Visual Analytics in Healthcare 2020 in conjunction with the American Medical Informatics Association. Chicago, IL. November 2020. [*Virtual poster presentation due to COVID-19*].

*Taneja A, Kalynych C, Helmi H, Hendry P, **Fishe JN**. "Development and Implementation of a Longitudinal Research Curriculum for Pediatric Emergency Medicine (PEM)." Pediatric Academic Societies National Conference. Philadelphia, PA. 2020. [*Accepted for presentation – conference cancelled due to COVID 19*].

*Woodruff G, Palmer L, Yorkgitis B, **Fishe JN**, Crandall M. "Patterns and outcomes of recurrent traumatic injury to children at a level 1 trauma center." Society for Academic Emergency Medicine National Conference. Denver, CO. 2020. [*Accepted for Presentation – conference cancelled due to COVID 19*].

Anders J, Aledhaim A, **Fishe JN**, Hirshon JM. "Analysis of ED Disposition and Odds of Secondary Transport for Pediatric Patients Transported by EMS." American Academy of Pediatrics National Conference and Exhibition. New Orleans, LA, 2019.

Anders J, Aledhaim A, **Fishe JN**, Hirshon JM. "Analysis of ED Disposition and Odds of Secondary Transport for Pediatric Patients Transported by EMS." National Association of EMS Physicians Annual Conference. San Diego, CA, 2020.

*McManus K, Finlay E, Palmer S, Anders JF, Hendry P, **Fishe JN**. "A Statewide Analysis of Reason for EMS' Pediatric Destination Choice." National Association of EMS Physicians Annual Conference 2020. San Diego, CA.

Fishe JN, Lynch S. "Pediatric Behavioral Health-Related EMS Encounters: A Statewide Analysis." Society for Academic Emergency Medicine. May 2019, Las Vegas, NV.

Aledhaim A, **Fishe JN**, Hirshon JM, Anders JF. "A Simple Approach to Probabilistic Linkage Using Statewide Health Records." Johns Hopkins Postdoctoral Conference, 2019. Baltimore, MD.

Fishe JN, Smotherman C, Gautam S, Finlay E, Palmer E, Hendry P, Hendeles L. "Epidemiology of Prehospital Pediatric Asthma Encounters: Demographic and Clinical Characteristics." National Association of EMS Physicians Annual Meeting, January 2019. Austin, TX.

Fishe JN, Fratta K, Anders JF. "Use of the Communities of Practice Model to Educate Providers on a New Pediatric Protocol." National Association of EMS Physicians Annual Meeting, January 2019. Austin, TX.

Fishe JN, Psoter KJ, Anders JF. "EMS Bypass of the Closest Hospital for Pediatric Patients Varies Significantly by Socioeconomic Status." American Academy of Pediatrics National Conference and Exhibition, 2018. Orlando, FL.

Fishe JN, Fratta K, Anders JF. "PDTree: Development of a new pediatric prehospital transport destination EBG." National Association of EMS Physicians Annual Meeting, January 2018.

Fishe JN, Psoter KJ, Fratta K, Tilchin C, Anders JF. "Pediatric Bypass: Characteristics and Effects on EMS Resources." National Association of EMS Physicians Annual Meeting, January 2018.

Anders JF, Psoter KJ, **Fishe JN**, Tilchin C, Fratta K. "Quantifying EMS resource allocation for pediatric transports." National Association of EMS Physicians Annual Meeting, January 2018.

Aledhaim A, **Fishe JN**, Hirshon JM, Anders JF. "Factors Associated with Pediatric Interfacility Transfer from Emergency Departments." National Association of EMS Physicians Annual Meeting, January 2018.

Aledhaim A, **Fishe JN**, Hirshon JM, Anders JF. "Duplicate procedures and charges associated with pediatric interfacility transfer from emergency departments." National Association of EMS Physicians Annual Meeting, January 2018.

Fishe JN, Crowe R, Cash R, Nudell N, Martin-Gill C, Richards C. "Prehospital Evidence-Based Guideline Implementation Methodology: A Systematic Literature Review." National Association of EMS Physicians Annual Meeting, January 2018.

VanGraafeiland B, Foronda C, Vanderwagen S, Allan L, Bernier M, **Fishe JN**, Hunt B, Jeffers J. "A standardized handover and transport process for critically ill pediatric patients: An interdisciplinary collaboration." Sigma Theta Tau International's 28th International Nursing Research Congress, 2017.

Fishe JN, Klein BK, Psoter K, Anders JF. "A foundation for developing new non-trauma pediatric direct transport protocols." National Association of Emergency Medical Services Physicians Annual Meeting, January 2017 & Pediatric Academic Societies, May 2017.

Fishe JN, Klein BK, Psoter K, Anders JF. "Characteristics of Non-Trauma Pediatric EMS Patients Requiring Secondary Transport." Pediatric Academic Societies, 2016.

Fishe JN, Wilson ME, Ogborn J, Kane A, Baker MD. "Awareness alters behavior: EMR tracking decreases Pediatric ED consult times." Pediatric Academic Societies, 2017.

Fishe JN, Luberti AA, Master CL, Robinson RL, Grady MF, McGinley AD, Arbogast KB, Zonfrillo MR. "Minds Matter: Improving concussion management through after-hours telephone triage of pediatric head injury." American Academy of Pediatrics, 2013 & Children's Hospital of Philadelphia Quality and Patient Safety Day, 2013 & 14th Annual John M. Templeton Jr Pediatric Trauma Symposium, 2014.

Fishe JN, Stineman MG, Zhang X, Zonfrillo MR. Disparities in functional outcomes by race, ethnicity, and insurance status following injury-related inpatient rehabilitation. Pediatric Academic Societies, 2013.

PEER REVIEWER

2020-present	<i>Pediatric Emergency Care</i>
2020-present	<i>Public Health Reports</i>
2020-present	<i>BMJ Open</i>
2020-present	<i>PLOS ONE</i>
2020-present	UF CTSI Precision Health Initiative Pilot Grant Submissions
2020-present	National Association of EMS Physicians & American Medical Response Foundation (Grant Reviewer)
2019-present	National Association of EMS Physicians Annual Conference (Abstract Submissions and Poster Judge for Research Committee)
2020-present	Society for Academic Emergency Medicine Annual Conference (Abstract Submissions for Research Committee)
2019-present	Society for Academic Emergency Medicine Foundation (SAEM Foundation Grant Submissions)
2019-present	<i>Prehospital Emergency Care</i>
2018-present	<i>Academic Emergency Medicine</i>
2017-present	<i>BMJ Open Quality</i>
2017-present	<i>Western Journal of Emergency Medicine</i>

CURRENT RESEARCH FUNDING

2020-2025	EASI-AS-ODT: Early Administration of Steroids in the Ambulance Setting: An Observational Design Trial NIH / NHLBI - K23HL149991 PI, 75% effort
2019-2020	Researching Precision Emergency Asthma Treatment (RePEAT) R. Scott MacKenzie Foundation PI, No Effort
2019-2020	EASI-AS-ODT: Early Administration of Steroids in the Ambulance Setting: An Observational Design Trial UF Seed Grant Award PI, No Effort
2019-2020	Researching Precision Emergency Asthma Treatment (RePEAT): Pharmacogenomics of African American Bronchodilator Response UF CTSI Precision Health Initiative Pilot Project Award PI, No Effort
2021-2022	AIRIC: Artificial Intelligence for Research Informed Consent UF Informatics Institute Seed Fund PI, No Effort
2020-2020	Rapid Development of Pandemic Models for Actionable Clinical and Administrative Decision Support UF CTSI COVID-19 Rapid-Response Research Project Co-Investigator, 5% Effort PI: Chris Harle, PhD, University of Florida
2020-2022	The External Exposome and COVID-19 Severity National Institute of Environmental Health Sciences 1R21ESO32762 Co-Investigator, 2.5% Effort PI: Hui Hu, PhD
2020-2023	Pain Assessment and Management Initiative's Emergency Department Alternatives to Opioids (PAMI ED-ALT) Substance Abuse and Mental Health Services Administration Co-Investigator, 5% Effort PI: Dr. Sophia Sheikh, MD, University of Florida – Jacksonville

PRIOR RESEARCH FUNDING

2018-2020	Principal Investigator, "What Happens After Calling 911: Understanding Pediatric Prehospital Asthma Treatment." NIH-UF CTSI KL2 Award KL2TR001429, Project ID P0077863
2019-2020	PAMI 3.0: The Pain Assessment and Management Initiative Florida Medical Malpractice Joint Underwriting Association (FMMJUA) Co-Investigator, 2.5% Effort PI: Phyllis Hendry, MD; University of Florida - Jacksonville
2016-2019	Co-Investigator, "PDTree: An EMS Triage Tool for Pediatric Destination Decision-Making"

Health Resource and Services Administration (HRSA), Maternal and Child Health Bureau (MCHB), Emergency Medical Services for Children (EMSC) Targeted Issues Grant H34MC30232
 10% Effort
 PI: Jennifer F. Anders, MD; Johns Hopkins University

2015 - 2017

Principal Investigator, Falck Foundation Research Grant
 “Developing a Pre-Hospital Direct Transport Protocol for Non-Trauma Pediatric Emergency Patients”

NON-FUNDED RESEARCH

2019-present

“All of Us”, Site PI, UF-Jacksonville

- *All of Us* is a component of the Precision Medicine Initiative (PMI) run by the National Institutes of Health.
- Oversight of UF-Jacksonville recruitment, enrollment, consent, and data collection (biospecimen and clinical)

RESEARCH MENTORSHIP

	Mentee (year)	Program	Topic	Scholarly Product(s)
1.	Ankita Taneja, MD (2017-2020)	PEM Fellow	Graduate Medical Education	National Poster Presentation
	“Development and Implementation of a Longitudinal Research Curriculum for Pediatric Emergency Medicine (PEM).” Pediatric Academic Societies. Philadelphia, PA. June 2020. [Virtual format due to COVID 19].			
2.	Denisse Fernandez-Goytizolo, MD (2017-2020)	PEM Fellow	Pediatric EMS	National Oral Presentation & Abstract Publication
	“Pediatric Prehospital Analgesia’s Association with ED Care and Outcomes.” National Association of EMS Physicians Annual Meeting. San Diego, CA. January 2020. Fernandez-Goytizolo D, Hendry P, Fishe JN . “Pediatric Prehospital Analgesia’s Association with Emergency Department (ED) Care and Outcomes.” <i>Prehospital Emergency Care</i> . [Abstract] 2020. DOI 10.1080/10903127.2019.1666945.			
3.	Osayi Odia, MD (2017-2020)	PEM Fellow	Pediatric Trauma / Bioinformatics	National Oral Presentation & Peer-Reviewed Publication
	“Success of a Blunt Abdominal Trauma Algorithm in Decreasing CT Scans in Hemodynamically Stable Children.” Society for Academic Emergency Medicine. Las Vegas, NV. May 2019. Odia O, Yorkgitis B, Gurien L, Hendry P, Crandall M, Skarupa D, Fishe JN . “An Evidence-Based Algorithm Decreases Computed Tomography Use in Hemodynamically Stable Pediatric Blunt Abdominal Trauma Patients.” <i>The American Journal of Surgery</i> . 2020:482-488. https://doi.org/10.1016/j.amjsurg.2020.01.006			
4.	Akhila Mandadi, MD (2018-present)	PEM Fellow	Child Abuse	UF COM Jacksonville Deans Grant Award
	“A local and national pediatric emergency medicine perspective on child maltreatment recognition and reporting.” University of Florida College of Medicine Jacksonville Dean’s Grant Awardee.			
5.	Raquel Schonenberg, MD (2018-present)	PEM Fellow	Pediatric Trauma / Bioinformatics	National Oral Presentation
	Oral Presentation: “Implementation of a Dual Pediatric Cervical Spine and Blunt Cerebrovascular			

	<p>Injury Pathway.” Society for Academic Emergency Medicine National Conference. Denver, CO. May 2020. [Virtual format due to COVID 19] Schonenberg Llach MR, Fishe JN, Yorkgitis B. “Implementation of a dual cervical spine and blunt cerebrovascular injury assessment pathway for pediatric trauma patients.” <i>American Journal of Emergency Medicine</i>. 2021;47:74-79. Award Best Clinical Research Poster - UF College of Medicine Jacksonville Celebration of Resident and Fellow Education and Research Day 2021</p>			
6.	James Buscher, MD (2018-present)	PEM Fellow	Pediatric Trauma	National Oral Presentation
	<p>“Temporal and Environmental Trends in Pediatric Submersion: A Year-round Phenomenom. Society for Academic Emergency Medicine National Conference. Denver, CO. May 2020. [Virtual format due to COVID 19].</p>			
7.	Rebecca Higley, MD (2019-present)	PEM Fellow	Pediatric Asthma / Pharmacogenomics	Peer-Reviewed Publication
	<p>Fishe JN, *Higley RK, Casey D, Hogans L, Wylie TW, Hendry PL, Henson M, Bertrand A, Blake KV. “Methods and Implementation of a Pediatric Asthma Pharmacogenomic Study in the Emergency Department Setting.” <i>Pharmacogenetics and Genomics</i>. 2020;30:201-207. Fishe JN, Higley RK, Casey D, Baskovich B, Labilloy G, Ginn A, Blake K. “SNPs in PRKG1 & SPATA13-AS1 are associated with bronchodilator response: A pilot study during acute asthma exacerbations in African American children.” <i>Pharmacogenomics and Genetics</i>. 2021. DOI: 10.1097/FPC.0000000000000434. PMID: 33851947.</p>			
8.	Kayla McManus, DO (2018-present)	Pediatrics Resident, PEM Fellow	Pediatric EMS / Big Data	National Poster Presentation, Peer-Reviewed Publication
	<p>“A Statewide Analysis of Reason for EMS’ Pediatric Destination Choice.” National Association of EMS Physicians Annual Conference. San Diego, CA. January 2020. McManus K, Finlay E, Palmer S, Anders JF, Hendry P, Fishe JN. “A Statewide Analysis of Reason for EMS’ Pediatric Destination Choice.” <i>Prehospital Emergency Care</i>. 2020;24(5):672-83. <i>I nominated Dr. McManus for the NAEMSP Women in EMS Scholarship which she received in 2021.</i></p>			
9.	Morgan Henson (2018)	MPH (UNF)	Thesis Advisor / Big Data	Local Poster Presentation
	<p>“Data Analysis on Pediatric Asthma Patients who Receive Systemic Corticosteroids.” UNF MPH Research Conference. Jacksonville, FL. August 2018.</p>			
10.	Guillaume Labilloy (2020-present)	PhD – Bioinformatics (U Cincinnati)	Thesis Advisor / Pharmacogenomics & Bioinformatics	Peer-Reviewed Publication, National Presentation
	<p>Fishe JN, Higley RK, Casey D, Baskovich B, Labilloy G, Ginn A, Blake K. “SNPs in PRKG1 & SPATA13-AS1 are associated with bronchodilator response: A pilot study during acute asthma exacerbations in African American children.” [accepted for publication] Fishe JN, Labilloy G. “Machine Learning & EMS Data: What are the Possibilities and Where Do I Start?” National Association of EMS Physicians Annual Meeting, January 2021. [Accepted for Presentation – Virtual Meeting due to COVID-19].</p>			
11.	Landon Lichtman, MD	Emergency Medicine Resident	Scholarly Activity Advisor	
	<p>UF North lead for AAP PIPA Asthma QI project</p>			
12.	Kyle Fratta	DO Candidate	Research Advisor / Big Data / Pediatric EMS	3 National Posters, 1 peer-reviewed publication, 2 other publications

	<p>“Quantifying EMS resource allocation for pediatric transports.” National Association of EMS Physicians Annual Meeting. San Diego, CA. January 2018.</p> <p>“Creating an Evidence-Based Pediatric Prehospital Destination Tool via a Modified Delphi Method.” American College of Osteopathic Emergency Physicians Fall Scientific Assembly. Austin, TX. November 2019.</p> <p>“Pilot Testing of a Novel Pediatric EMS Destination Decision Tool.” American College of Osteopathic Emergency Physicians Scientific Assembly. Chicago, IL. October 2018.</p>			
13.	Erin Mobley, PhD	Asst Professor of Surgery	Research Mentor Big Data / OneFlorida	JAX-ASCENT Scholar Grant
	<p>Serve as a Co-Mentor on Dr. Mobley’s JAX-ASCENT scholar career development award (2021-2023).</p> <p>Serve as Co-I on Dr. Mobley’s UF Jacksonville Launchpad Grant “Using natural language processing to identify clinical and social determinants of survivorship care for childhood, adolescent, and young adult cancer survivors.”</p>			
13.	Shama Patel, MD	Asst Professor of Emergency Medicine	Research Mentor Implementation Science	JAX Scholars Program
	Serve as a Co-Mentor to Dr. Shama Patel for her global health research			

QUALITY IMPROVEMENT PROJECTS

2018-2020	<p>“A Pediatric EMS Quality Improvement Collaborative”</p> <ul style="list-style-type: none"> Quality Improvement project with Leon County EMS to increase evidence-based pediatric asthma, seizure, and pain management
2017-2019	<p>“Pathways for Improving Pediatric Asthma Care (PIPA)” Lead Site Physician, UF-Jacksonville</p> <ul style="list-style-type: none"> National American Academy of Pediatrics Asthma Quality Improvement Collaborative
2016-2017	<p>FMMJUA Patient Safety Grant “Pediatric Emergency Care Safety Initiative” Collaborator UF-Jacksonville, PI Phyllis Hendry, MD Author of Educational Presentations on General Pediatric Emergency Care, Respiratory Emergencies, Cardiac Emergencies, and Trauma</p>
2015-2017	<p>“Decreasing PED Consult Times through Meaningful EMR Use” PI</p> <ul style="list-style-type: none"> Lead physician for PED QI Project for fiscal year 2015-2016 and 2016-2017 PDSA cycles and SPC analysis to achieve objectives: increase consult tracking in EMR, increase percentage of consults completed within 120 minutes, decrease ED LOS for consult patients

NON-RESEACH NATIONAL PRESENTATIONS

2021	<p>Fishe JN. “Pediatric Medical Malpractice”. Clinical Decision Making in Emergency Medicine. June. Ponte Vedra, FL.</p>
2021	<p>Fishe JN, Blake KV, Fedele D, Prabhakaran S. “Our Community Our Health Pediatric Asthma Town Hall: Childhood asthma: treatment,</p>

emergency care, and new research & technology.” May 4, 2021. Virtual webinar sponsored by UF CTSI Healthstreet.
Available at: <https://www.youtube.com/watch?v=MO4i29SU8Fo&t=21s>

- 2020 **Fishe JN**, Hendry P, Anders JF, Owusu-Ansah S. “Incorporating Pediatric EMS into your Academic Mission: Education, Research, Clinical Care, and Outreach.”
[Accepted for presentation Society for Academic Emergency Medicine National Conference, 2020 – conference cancelled due to COVID 19]
- 2018 **Fishe, JN**. “Merging Prehospital and ED Asthma Care”
Clinical Decision Making in Emergency Medicine. June. Ponte Vedra, FL.
- 2017 **Fishe JN**. “Seizure management in the acute setting.” Lecture & Simulations.
Johns Hopkins 5th Annual Practical Topics in Emergency Medicine. Clearwater, FL.
- 2016 **Fishe JN**, Anders JF, Simpson J, Brown K. “Destination Dilemmas in Pediatric Trauma Transport.”
EMS Today Conference & Exposition, Baltimore, MD.

NON-RESEACH STATEWIDE PRESENTATIONS

- 2019 **Fishe JN**, Hendry P. “Challenges and Opportunities in Rural Pediatric Prehospital and Emergency Care.” Florida Rural Health Association 25th Annual Rural Health Educational Summit. Jacksonville University, Jacksonville, FL. 2019.

COMMITTEES

National

- 2020-present NASEMSO Model EMS Clinical Guidelines 2022 Revision Project
- Reviewer, Pediatric Guidelines: Bronchiolitis, Asthma
- 2017-present Prehospital Guidelines Consortium
- Research Subcommittee
- 2017-present National Association of EMS Physicians
- Pediatrics Committee
Review & Edited Position Statement:
“Medication dosing safety for pediatric patients: Recognizing Gaps, Safety Threats, and Best Practices in the EMS Setting. A Position Statement and resource document from NAEMSP” *Prehospital Emergency Care*. 2021;25:294-306.
 - Pediatric Research Sub-Committee
 - Research Committee
 - Review EMF Foundation Grants 2020-present
- 2018-present National Emergency Department Inventory – USA
- Florida State Representative
- 2018-present Society for Academic Emergency Medicine (SAEM)
- Research Committee

- Grants Committee
 - Grant reviewer for SAEM Foundation & Diversity and Inclusion subcommittee

State

- 2019-present Florida Department of Health Feasible, Actionable, Impactful, and Relevant (FAIR) EMS Measurement Project
 - Selected for 15-member statewide steering committee
 - Tasked with establishing statewide EMS QI measures and operationalizing measurement and data collection / presentation
 - Product and results will be submitted to HRSA

- 2018-present Florida EMS for Children Advisory Committee
 - Appointed by Florida's Surgeon General
 - First appointment 2018, Reappointed 2020

- 2019-present Florida EMS Data Committee
 - Quality/Clinical Initiatives for Florida DOH & Florida's statewide EMS database EMSTARS
 - Review research proposals from DOH for use of EMSTARS data

University of Florida

- 2020-present Member, IRB-01

- 2020-2021 Member, Search Committee for Associate Dean for Research and Health Sciences, George A. Smathers Libraries

- 2021-present Member, Health Science Center AI Recruitment – Decision Support Search Committee

- 2020 Member, COVID-19 Scientific Review Committee

University of Florida College of Medicine – Jacksonville:

- 2018-2019 Chair, Pediatric Emergency Department Resuscitation Equipment Lean Six Sigma for Healthcare 5S Task Force

- 2018-2019 Chair, Data Science Task Force (commissioned by Senior Associate Dean for Research Dr. Alex Parker)

- 2018-2020 Chair, Pediatric Emergency Department Renovation Task Force and author of Florida Blue renovation grant

- 2018-2019 Institutional Review Board (IRB-03), Voting Member

- 2017-present Wildlight Development: Strategic Alliance & Education and Youth Working Group

- 2017-present Pediatric Scholarly Oversight Committee Chair
UF - Jacksonville
 - Every-other-month meetings overseeing fellowship scholarly activity projects for pediatric emergency medicine, child abuse, infectious disease

- Author of research longitudinal curriculum and quality improvement “mini-curriculum” for fellows

OTHER CERTIFICATIONS

2017	Lean Sigma for Healthcare Green Belt Johns Hopkins Armstrong Institute
2017	Tactical Combat Casualty Care (TCCC)
2014-2017	Science of Clinical Investigation Certificate Bloomberg School of Public Health, Johns Hopkins University
2017	Advanced Trauma Life Support (ATLS)
2016	FEMA Pediatric Disaster Response and Emergency Preparedness (MGT-439)
2013-present	Pediatric Advanced Life Support (PALS)
2015-present	PALS Instructor

ADMINISTRATION

2019 – present	Director, UF Center for Data Solutions <ul style="list-style-type: none"> • Design, implementation, and oversight of UF Center for Data Solutions • Responsible for strategy, oversight, hiring, connecting local investigators and analysts, and generation of external revenue streams and partnerships
2017 – present	Associate Medical Director – Pediatric ED University of Florida-Jacksonville <ul style="list-style-type: none"> • Author of proposal which garnered \$200,000 grant from FloridaBlue Foundation for renovations • Responsible for Pediatric ED resident schedule • Author of Pediatric Admission Guidelines • Clinical pathways: inborn errors of metabolism, seizures, febrile neonate, traumatic cervical spine injury, UTI • Expanded Pediatric Emergency Medicine attending clinical coverage to UF-North
2019 – present	Associate Medical Director for Pediatrics Nassau County Fire Rescue <ul style="list-style-type: none"> • Responsible for online and offline pediatric medical direction • Revised pediatric protocols in 2019 • Pediatric EMS Research & QA
2020 – present	Associate Medical Director for Pediatrics City of Fernandina Beach Fire Rescue <ul style="list-style-type: none"> • Responsible for online and offline pediatric medical direction • Revised pediatric protocols in 2020 • Pediatric QA

TEACHING

2017-present	Coordinator, Pediatric Emergency Medicine Fellows EMS Rotation UF-Jacksonville <ul style="list-style-type: none"> • Author of curriculum • Responsible for lectures, oversight of outside activities, evaluations
2018-present	Coordinator, Pediatric Emergency Medicine Fellows Research Rotation UF-Jacksonville <ul style="list-style-type: none"> • Co-Author of Longitudinal Curriculum • Responsible for ACGME requirements, ABP requirements, evaluations
2017	Jacksonville Fire Rescue Department Pediatric Education
2017-present	Nassau County & City of Fernandina Beach Fire Rescue Department Pediatric Education <ul style="list-style-type: none"> • Fire Academy lecture and simulation sessions • Pediatric Educational Session for all ALS providers, February 2018 & September 2018

GRAND ROUNDS & SELECTED EDUCATIONAL LECTURES

3-4-2021	“Introduction to Implementation Science” UF Jacksonville Research Essentials
11-5-2020	“Pathways to research independence: Panel discussion” UF Jacksonville Center for Research Training <i>Invited Panel Member</i>
7-9-2020	“Pediatric Sedation” UF-Jacksonville Pediatric Emergency Medicine Grand Rounds
6-18-2020	“Pediatric Transport” UF-Jacksonville Pediatric Emergency Medicine Grand Rounds
6-2-2020	“Researching Precision Emergency Asthma Treatment” UF CTSI Precision Medicine Program’s Monthly Precision Health Forum
2-13-2020	“Advanced Asthma in the Community” UF-Jacksonville ED Trauma Symposium
1-26-2020	“Inborn Errors of Metabolism” UF-Jacksonville Pediatric Emergency Medicine Grand Rounds
7-2-2019	“Injury Prevention and Personal Safety” <i>Invited Guest Speaker</i> University of North Florida School of Public Health
12-10-2018	“Pediatric Knee Pain” UF-Jacksonville Pediatric Emergency Medicine Grand Rounds
7-12-2018	“Top 10 Pediatric Articles that Will Change Your Practice” and “EMS & Children with Special Health Care Needs” CLINCON 2018, Florida Statewide EMS Conference
2-15-2018	“Pediatric Injury Prevention”

	UF-Jacksonville ED Trauma Symposium
1-11-2018	“QI 101” UF-Jacksonville Pediatric Scholarly Oversight Committee Meeting
12-12-2017	“Pediatric Burns” UF-Jacksonville Kids Trauma Care Conference
12-21-2017	“Child Abuse and the Law” UF-Jacksonville Pediatric Emergency Medicine Grand Rounds
12-7-2017 & 12-10-2020	“Dysbarisms” UF-Jacksonville Emergency Medicine Grand Rounds
9-21-2017	“Bronchiolitis” UF-Jacksonville Pediatric Emergency Medicine Grand Rounds
8-12-2016	“Ask the Expert” - Hydrocarbon Ingestion Barton Child’s Case Conference Johns Hopkins Pediatric Residency Program
10-28-2015	“Neurologic Emergencies” Pediatric Grand Rounds St. Agnes Hospital

MEDIA SPOTLIGHTS

“Jennifer Fishe, MD, receives federal grant to study pediatric asthma.” April 9, 2021. Available at: <https://med.jax.ufl.edu/news/story/?id=2723>.

“Two Florida Health Systems Receive SAMHSA Grants to Implement ED Alternatives to Opioids Program.” April 13, 2021. Available at: <https://fcep.org/two-florida-health-systems-receive-samhsa-grants-to-implement-ed-alternatives-to-opioids-program/>

REFERENCES

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