

# RESEARCH NEWSLETTER

Northwestern University Feinberg School of Medicine  
Department of Emergency Medicine

Summer 2021

## Warm Welcomes All Around!



Lindsay Allen, PhD, joins us from West Virginia University. She received her BA in Cognitive Science from Johns Hopkins University, an MA in Health Administration and Policy from University of Chicago, and a PhD in Health Economics, Health Services Research from Emory University.

Dr. Allen studies the impact of state and local policies on health care access and use. She has empirical interests related to substance abuse treatment, acute care delivery mechanisms, and Medicaid. She is now an Assistant Professor of Emergency Medicine and the Buehler Center for Health Policy and Economics.



Alex Lundberg, PhD, also joins us from West Virginia University. He will be an Assistant Professor of Emergency Medicine and the Buehler Center for Health Policy and Economics.

He received his BS in Mathematics from Christopher Newport University, his MSc in Econometrics and Mathematical Economics from the London School of Economics and Political Science, and his PhD in Economics from Emory University. He brings his expertise in applied microeconomics, law and economics, and public economics.



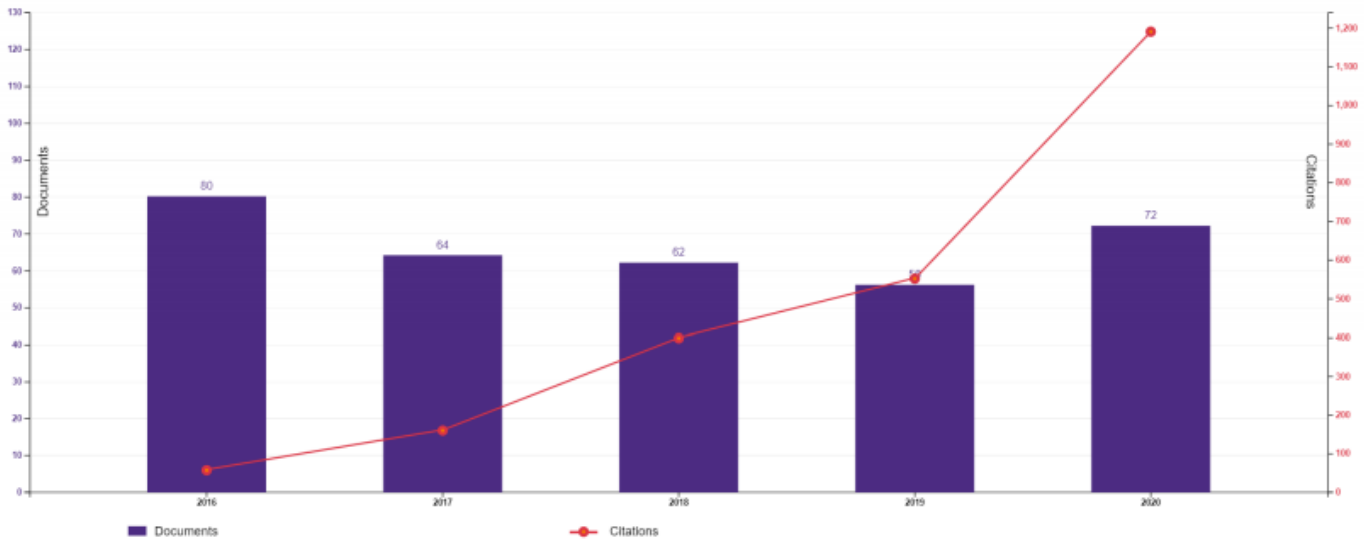
Regina Royan, MD, MPH, will be completing a two-year fellowship in Emergency Medicine Research. Regina has a background in public health practice and worked as a research epidemiologist and public health advisor for the City of Detroit prior to obtaining her MD at the University of Michigan and completing her Emergency Medicine residency at the University of Chicago.

Her research interests are rooted in community health, especially as it relates to injury prevention and gun violence, disaster response, pandemic preparedness, and other public health issues affecting Chicago's underserved populations. When not in the hospital, she enjoys spending time near the lake and exploring the city with her husband who is a Neurology resident at Northwestern, and their Irish Doodle puppy, Oberon.

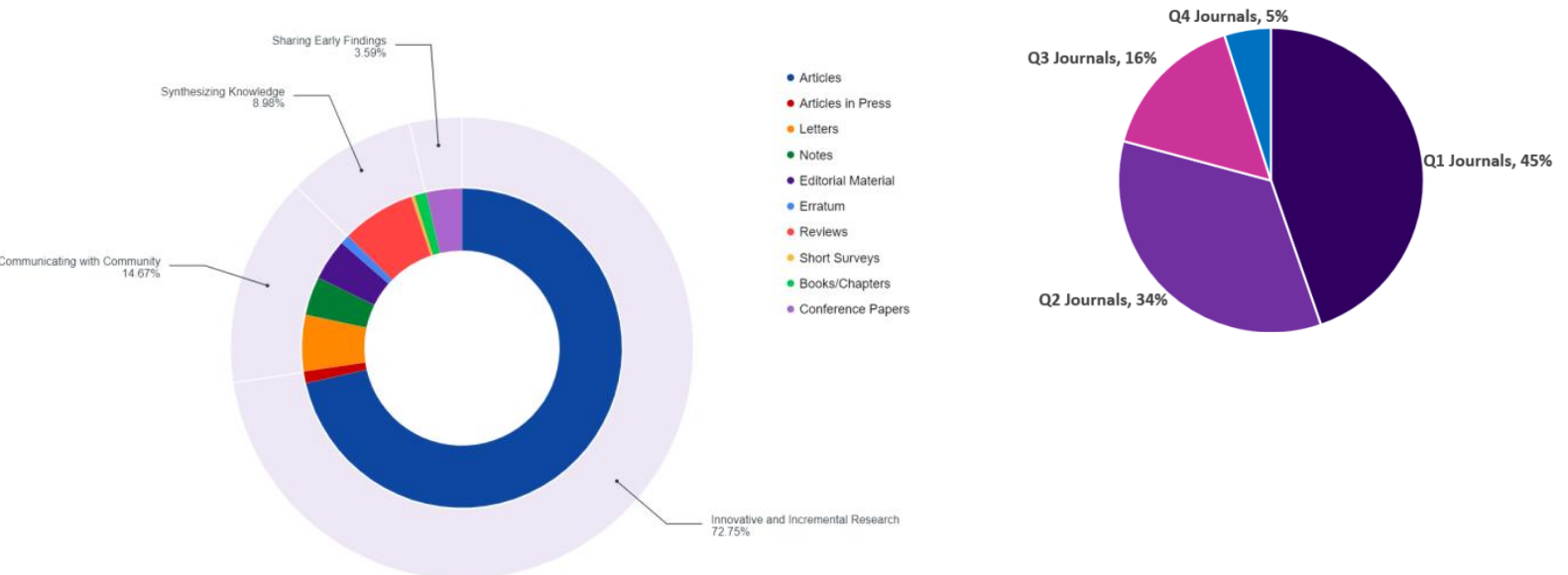
## Our Impact

Galter Health Sciences Library and Learning Center’s reporting services, the Metric and Impact Core, provided us with publication impact data for the emergency medicine faculty from 2016-2020 that we will highlight in this, and future, newsletters

Over the last 5 years, our department’s publication impact has continued grow, with each year’s publications receiving more and more citations.



The majority of our publications are original articles and are published in top quartile journals (both within EM and other specialties).



# Media Watch

## Modern Healthcare

In an article reflecting on the 5 years since the Pulse mass casualty, Dr. James Adams, Department Chair and CMO of NMH, talks about the importance of provider’s mental health.



George Chiampas, DO, was on live news discussing concerns of health and safety at the 2021 Tokyo Olympics, and the COVID-19 outbreak in the Olympic Village.



Dr. Adams discusses the importance of getting the COVID-19 vaccine, and the risks if you don’t.

## Faculty Spotlight



Jennifer Chan, MD and Sarah Welch, MPH, have been awarded two grants, one from the Peterson Foundation and the other from the NU Institute for Global Health. These funds support further study of Dr. Chan’s previous research on human mobility data during the COVID-19 pandemic. She and Sarah Welch, along with a graduate student at Harvard University, will use the resulting qualitative findings to improve the usability and value of human mobility data for continued use during the pandemic and for humanitarians to use in disaster response.

## Publications Update

### Jan – July 2021

**Post L**, Marogi E, Moss CB, Murphy RL, Ison MG, Achenbach CJ, Resnick D, Singh L, White J, Boctor MJ, **Welch SB**, Oehmke JF. SARS-CoV-2 Surveillance in the Middle East and North Africa: Longitudinal Trend Analysis. *J Med Internet Res*. 2021 Jan 15;23(1):e25830. doi: 10.2196/25830. PMID: 33302252; PMCID: PMC7813562.

**Kim HS**, Aks SE. Take-Home Naloxone and the Need for a Publicly Funded Naloxone Supply. *J Addict Med*. 2021 Feb 1. doi: 10.1097/ADM.0000000000000821. Epub ahead of print. PMID: 33534277.

**Post LA**, Lin JS, Moss CB, Murphy RL, Ison MG, Achenbach CJ, Resnick D, Singh LN, White J, Boctor MJ, **Welch SB**, Oehmke JF. SARS-CoV-2 Wave Two Surveillance in East Asia and the Pacific: Longitudinal Trend Analysis. *J Med Internet Res*. 2021 Feb 1;23(2):e25454. doi: 10.2196/25454. PMID: 33464207; PMCID: PMC7857528.

**Post LA**, Benishay ET, Moss CB, Murphy RL, Achenbach CJ, Ison MG, Resnick D, Singh LN, White J, Chaudhury AS, Boctor MJ, **Welch SB**, Oehmke JF. Surveillance Metrics of SARS-CoV-2 Transmission in Central Asia: Longitudinal Trend Analysis. *J Med Internet Res*. 2021 Feb 3;23(2):e25799. doi: 10.2196/25799. PMID: 33475513; PMCID: PMC7861038.

Oehmke TB, **Post LA**, Moss CB, Issa TZ, Boctor MJ, **Welch SB**, Oehmke JF. Dynamic Panel Data Modeling and Surveillance of COVID-19 in Metropolitan Areas in the United States: Longitudinal Trend Analysis. *J Med Internet Res*. 2021 Feb 9;23(2):e26081. doi: 10.2196/26081. PMID: 33481757; PMCID: PMC7879727.

**McCarthy DM**, **Kim HS**, Hur SI, **Lank PM**, **Arroyo C**, **Opsasnick LA\***, **Piserchia K**, Curtis LM, Wolf MS, Courtney DM. Patient-Reported Opioid Pill Consumption After an ED Visit: How Many Pills Are People Using? *Pain Med*. 2021 Feb 23;22(2):292-302. doi: 10.1093/pm/pnaa048. PMID: 32219431.

**Serina P\***, **Lo AX**, Kocherginsky M, Gray E, Lindquist LA, **Post LA**, Heinemann AW, **Cruz D**, **Dresden SM**. The Clinical Frailty Scale and Health Services Use for Older Adults in the Emergency Department. *J Am Geriatr Soc*. 2021 Mar;69(3):837-839. doi: 10.1111/jgs.16937. Epub 2020 Nov 17. PMID: 33205408.

**Cohen BA\***, **Wessling EG\***, **Serina PT\***, **Cruz DS**, **Kim HS**, **McCarthy DM**, **Loftus TM**. Emergency department operations in a large health system during COVID-19. *Am J Emerg Med*. 2021 Mar;41:241-243. doi:10.1016/j.ajem.2020.05.097. Epub 2020 Jun 2. PMID: 32505468; PMCID: PMC7264938.

**Pruitt P**, Naidech A, Prabhakaran S, Holl JL, Courtney DM, Borczuk P. External Validation of a Tool to Predict Neurosurgery in Patients with Isolated Subdural Hematoma. *World Neurosurg*. 2021 Mar;147:e163-e170. doi:10.1016/j.wneu.2020.11.170. Epub 2020 Dec 10. PMID: 33309641.

Rising KL, **McCarthy DM**. In Reply to Hancock and Mattick. *Acad Med*. 2021 Mar 1;96(3):320. doi:10.1097/ACM.00000000000003840. PMID: 33661841.

Feinglass J, Walker G, Khazanchi R, Rydland K, Tessier RA, **Mason M**. Community Versus Hospital Opioid-Related Overdose Deaths in Illinois. *Public Health Rep*. 2021 Mar 8:33354921994901. doi: 10.1177/0033354921994901. Epub ahead of print. PMID: 33682493.

**Mason M, Welch SB, Arunkumar P, Post LA, Feinglass JM.** Notes from the Field: Opioid Overdose Deaths Before, During, and After an 11-Week COVID-19 Stay-at-Home Order - Cook County, Illinois, January 1, 2018-October 6, 2020. *MMWR Morb Mortal Wkly Rep.* 2021 Mar 12;70(10):362-363. doi: 10.15585/mmwr.mm7010a3. PMID: 33705372; PMCID: PMC7951817.

**Leibowitz MK\*, Scudder MR\*\*, McCabe M\*\*, Chan JL, Klein MR, Trueger NS, McCarthy DM.** Emergency Medicine Influencers' Twitter Use During the COVID-19 Pandemic: A Mixed-methods Analysis. *West J Emerg Med.* 2021 Mar 22;22(3):710-718. doi: 10.5811/westjem.2020.12.49213. PMID: 34125051; PMCID: PMC8203008.

**Mason M, Welch SB, McLone S, Bartell T, Lank PM, Sheehan K, Post LA.** A cross-sectional study of opioid involvement in non-poisoning suicide - risks and prevention opportunities. *BMC Public Health.* 2021 Apr 21;21(1):767. doi: 10.1186/s12889-021-10792-y. PMID: 33882873; PMCID: PMC8060995.

**Post L, Mason M, Singh LN, Wleklinski NP\*, Moss CB, Mohammad H, Issa TZ, Akhetuamhen AI\*, Brandt CA, Welch SB, Oehmke JF.** Impact of Firearm Surveillance on Gun Control Policy: Regression Discontinuity Analysis. *JMIR Public Health Surveill.* 2021 Apr 22;7(4):e26042. doi: 10.2196/26042. PMID: 33783360; PMCID: PMC8103291.

**Post L, Ohiomoba RO, Maras A, Watts SJ, Moss CB, Murphy RL, Ison MG, Achenbach CJ, Resnick D, Singh LN, White J, Chaudhury AS, Boctor MJ, Welch SB, Oehmke JF.** Latin America and the Caribbean SARS-CoV-2 Surveillance: Longitudinal Trend Analysis. *JMIR Public Health Surveill.* 2021 Apr 27;7(4):e25728. doi: 10.2196/25728. PMID: 33852413; PMCID: PMC8083950.

**Post L, Culler K, Moss CB, Murphy RL, Achenbach CJ, Ison MG, Resnick D, Singh LN, White J, Boctor MJ, Welch SB, Oehmke JF.** Surveillance of the Second Wave of COVID-19 in Europe: Longitudinal Trend Analyses. *JMIR Public Health Surveill.* 2021 Apr 28;7(4):e25695. doi: 10.2196/25695. PMID: 33818391; PMCID: PMC8080962.

**Kontrick AV, VanWagner LB, Yeh C, Courtney DM.** Hepatic Steatosis: An Incidental Finding That Deserves Attention. *Acad Emerg Med.* 2021 May;28(5):578-581. doi: 10.1111/acem.14174. Epub 2020 Dec 15. PMID: 33210438.

Xiao N, Cooper JG, Godbe JM, Bechel MA, Scott MB, Nguyen E, **McCarthy DM**, Abboud S, Allen BD, Parekh ND. Chest radiograph at admission predicts early intubation among inpatient COVID-19 patients. *Eur Radiol.* 2021 May;31(5):2825-2832. doi: 10.1007/s00330-020-07354-y. Epub 2020 Oct 13. PMID: 33051736; PMCID: PMC7553374.

Rivera AS, Hernandez R, Mag-Usara R, Sy KN, Ulitin AR, O'Dwyer LC, **McHugh MC**, Jordan N, Hirschhorn LR. Implementation outcomes of HIV self-testing in low- and middle- income countries: A scoping review. *PLoS One.* 2021 May 3;16(5):e0250434. doi: 10.1371/journal.pone.0250434. PMID: 33939722; PMCID: PMC8092786.

Sneed RS, **Mason M**, Williams JN, Sinnette C, Taber K, Mancera-Cuevas K, Curry G, Canessa P, Ramsey-Goldman R, Feldman CH. Using Critical Race Theory to Understand Trial Participation Among Black Individuals with Systemic Lupus Erythematosus: A Qualitative Study of Patients and Caregivers. *Arthritis Care Res (Hoboken).* 2021 May 10. doi: 10.1002/acr.24635. Epub ahead of print. PMID: 33973413.

**Post L**, Boctor MJ, Issa TZ, Moss CB, Murphy RL, Achenbach CJ, Ison MG, Resnick D, Singh L, White J, **Welch SB**, Oehmke JF. SARS-CoV-2 Surveillance System in Canada: Longitudinal Trend Analysis. *JMIR Public Health Surveill.* 2021 May 10;7(5):e25753. doi: 10.2196/25753. PMID: 33852410; PMCID: PMC8112542.

Hsu AK, Bassett SM, O'Dwyer LC, **McHugh M**, Heinemann AW, Jordan N, Dhar S. Cost-Effectiveness of Hearing Screening in Older Adults: A Scoping Review. *Res Aging.* 2021 May 11:1640275211008583. doi:10.1177/01640275211008583. Epub ahead of print. PMID: 33973495.

Brandt CA, Workman TE, Farmer MM, Akgün KM, Abel EA, Skanderson M, Bean-Mayberry B, Zeng-Treitler Q, **Mason M**, Bastian LA, Goulet JL, **Post LA**. Documentation of Screening for Firearm Access by Healthcare Providers in the Veterans Healthcare System: A Retrospective Study. *West J Emerg Med.* 2021 May 19;22(3):525-532. doi:10.5811/westjem.2021.4.51203. PMID: 34125022; PMCID: PMC8203018.

Shannon BC, **Pruitt P**, Borczuk P. The Utility of Computed Tomography Angiogram in Patients with Mild Traumatic Subarachnoid Hemorrhage. *J Emerg Med.* 2021 May 29:S0736-4679(21)00166-9. doi:10.1016/j.jemermed.2021.02.023. Epub ahead of print. PMID: 34074551.

Hazekamp C, McLone S, Yousuf S, **Mason M**, Sheehan K. Educational Attainment of Male Homicide Victims Aged 18 to 24 Years in Chicago: 2006 to 2015. *J Interpers Violence.* 2021 Jun;36(11-12):5761-5774. doi:10.1177/0886260518807216. Epub 2018 Oct 24. PMID: 30354844.

Hwang U, **Dresden SM**, Vargas-Torres C, Kang R, Garrido MM, Loo G, Sze J, **Cruz D**, Richardson LD, **Adams J**, Aldeen A, Baumlin KM, Courtney DM, Gravenor S, Grudzen CR, Nimo G, Zhu CW; Geriatric Emergency Department Innovations in Care Through Workforce, Informatics, and Structural Enhancement (GEDI WISE) Investigators. Association of a Geriatric Emergency Department Innovation Program With Cost Outcomes Among Medicare Beneficiaries. *JAMA Netw Open.* 2021 Mar 1;4(3):e2037334. doi: 10.1001/jamanetworkopen.2020.37334. Erratum in: *JAMA Netw Open.* 2021 Mar 1;4(3):e217149. Erratum in: *JAMA Netw Open.* 2021 Jun 1;4(6):e2117178. PMID: 33646311; PMCID: PMC7921898.

Rivara FP, Bradley SM, Catenacci DV, Desai AN, Ganguli I, Haneuse SJPA, Inouye SK, Jacobs EA, Kan K, **Kim HS**, Morris AM, Ogedegbe O, Perencevich EN, Perlis RH, **Powell E**, Rubenfeld GD, Shulman LN, **Trueger NS**, Fihn SD. Structural Racism and JAMA Network Open. *JAMA Netw Open.* 2021 Jun 1;4(6):e2120269. doi:10.1001/jamanetworkopen.2021.20269. PMID: 34115135.

Chappell AG, Sood R, Hu A, Folsom SM, Wafford QE, Bowen DK, **Post LA**, Jordan SW. Surgical management of female genital mutilation-related morbidity: A scoping review. *J Plast Reconstr Aesthet Surg.* 2021 Jun 6:S17486815(21)00274-6. doi: 10.1016/j.bjps.2021.05.022. Epub ahead of print. PMID: 34219039.

**Welch SB**, Kulasekere DA, Prasad PVV, Moss CB, Murphy RL, Achenbach CJ, Ison MG, Resnick D, Singh L, White J, Issa TZ, Culler K, Boctor MJ, **Mason M**, Oehmke JF, Faber JMM, **Post LA**. The Interplay Between Policy and COVID-19 Outbreaks in South Asia: Longitudinal Trend Analysis of Surveillance Data. *JMIR Public Health Surveill.* 2021 Jun 17;7(6):e24251. doi: 10.2196/24251. PMID: 34081593; PMCID: PMC8213065.

Mowafi H, Rice B, Nambaziira R, Nirere G, Wongoda R, James M, Group GW, Bisanzo M, **Post L**. Household economic impact of road traffic injury versus routine emergencies in a low-income country. *Injury*. 2021 Jun 20:S00201383(21)00546-5. doi: 10.1016/j.injury.2021.06.007. Epub ahead of print. PMID: 34210454.

Diaz Baez Y, **Chodakowski JD**, Mycyk MB, **Kontrick AV**. Resident physician perception on how food choice affects wellness and professional development. *Am J Emerg Med*. 2021 Jul;45:602-603. doi: 10.1016/j.ajem.2020.12.007. Epub 2020 Dec 8. PMID: 33341324.

Rising KL, **McCarthy DM**. In Reply to Chou et al. *Acad Med*. 2021 Jul 1;96(7):931-932. doi:10.1097/ACM.0000000000004099. PMID: 34183478.

**Seltzer JA\***, Frankfurt O, **Kyriacou DN**. Association of an emergency department febrile neutropenia intervention protocol with time to initial antibiotic treatment. *Acad Emerg Med*. 2021 Jul 10. doi: 10.1111/acem.14335. Epub ahead of print. PMID: 34245642.

Papanagnou D, **Klein MR**, Zhang XC, Cameron KA, Doty A, **McCarthy DM**, Rising KL, **Salzman DH**. Developing standardized patient-based cases for communication training: lessons learned from training residents to communicate diagnostic uncertainty. *Adv Simul (Lond)*. 2021 Jul 22;6(1):26. doi: 10.1186/s41077-021-00176-y. PMID: 34294153; PMCID: PMC8296470.

Johnson JT, Scholtens DM, Kuang A, Feng XY, Eltayeb OM, **Post LA**, Marino BS. Does Value Vary by Center Surgical Volume for Neonates With Truncus Arteriosus? A Multicenter Study. *Ann Thorac Surg*. 2021 Jul;112(1):170-177. doi:10.1016/j.athoracsur.2020.05.178. Epub 2020 Aug 6. PMID: 32768429.