

## EDUCATION

**University of Maryland Baltimore** **Baltimore, Maryland**

*Doctor of Philosophy: Pharmaceutical Health Services Research* *August 2017 – May 2021*

*PhD Candidate and Graduate Research Assistant*

CGPA: 3.75 of 4.00

Dissertation: “The Creation of Objective Performance Criteria and Generation of Predictive Models among Medical Devices in a Vascular Space”

Advisors: Dr. Fadia T. Shaya and Dr. C. Daniel Mullins

**University of Arkansas for Medical Sciences** **Little Rock, Arkansas**

*Master of Science: Pharmaceutical Evaluation and Policy* *August 2015 – July 2017*

GPA: 3.79 of 4.00

Thesis: “The Risks of Concomitant Benzodiazepine and Opioid Use in Veterans”

Advisor: Dr. Jacob T. Painter

**Hendrix College** **Conway, Arkansas**

*Bachelor of Arts: Biochemistry and Molecular Biology* *August 2011 – May 2015*

Thesis: “Methylation Sensitive High Resolution Melt in the Study of the E-Cadherin Promoter”

**Dallas International School** **Dallas, Texas**

International Baccalaureate Diploma *August 2007 – May 2011*

## PROFESSIONAL WORK EXPERIENCE

**University of Arkansas for Medical Sciences** **Little Rock, Arkansas**

*Assistant Professor* *July 2021 – Present*

- Conducting research in within the opioid, medical device, and patient engagement space
- Coordinating courses in Pharmacy Management and Pharmacoepidemiology
- Submit grants and disseminate research findings through manuscript publications
- Mentor graduate students through graduate student assistantships, thesis projects, and dissertations

**US Food and Drug Administration** **Silver Spring, Maryland**

*ORISE Fellow* *July 2018 – September 2022*

- Aided in the infrastructure development and maturation of Coordinated Registry Networks in 12 clinical areas
- Conducted in-depth literature reviews, assessments of current data landscapes, identification of core data elements, gathering of data, and appropriate dissemination of results
- Participated and drafted manuscripts related to the identification of core minimum data elements and registry infrastructure
- Helped in the coordination of 9 annual meetings
- Involved in 2 projects dedicated to the signal discernment of medical devices and identification of innovation gaps

**US Department of Veterans Affairs** **Little Rock, Arkansas**

**South Central Mental Illness Research, Education and Clinical Center** **Little Rock, Arkansas**  
*Research Assistant* *June 2017 – September 2017*

- Evaluated the risk associated with concomitant opioid-antipsychotic use among Veterans
- Aided in the development of research methodology
- Performed the data analysis in SAS

**Central Arkansas Veterans Healthcare System**

**Little Rock, Arkansas**

*Research Assistant*

*July 2016 – June 2017*

- Aided in the development of a survey directed at providers caring for veterans living with HIV
- Transferred and administered the survey using REDCap
- Identified key responders to optimize the validity of the study

**Celgene**

**Munich, Germany**

*Drug Safety and Medical Information Intern*

*June 2015 – August 2015*

- Translated physician letters and adverse event reports between German and English
- Archived past adverse event reports according to local regulations
- Reviewed published studies and articles on Celgene products and reported side effects
- Edit and assist in the final preparation of patient and physician information brochures

**Hendrix College – Department of Chemistry**

**Conway, Arkansas**

*Lab Assistant and Stock Room Worker*

*January 2014 – May 2015*

- Supervised 20 students in weekly 3-hour Organic Chemistry labs
- Responded to student queries regarding lab protocol and techniques while ensuring students followed proper safety precautions
- Communicated lab objectives to students and explained significance of experiment results

**University of Texas Southwestern – Department of Urology**

**Dallas, Texas**

*Research Intern*

*June 2013 – August 2013*

- Managed one laboratory assistant
- Led a research project on the E-Cadherin Promoter

**TEACHING EXPERIENCE**

**Course Coordinator and Instructor**

**Pharmacy Management (COP PHPR 7306) – Doctor of Pharmacy**

**Pharmacoepidemiology (PSCI 61153 001) – PhD/MS in Pharmaceutical Evaluation and Policy**

College of Pharmacy, University of Arkansas for Medical Sciences

**Lecturer**

**Social and Administrative Sciences I (COP PHPR 71143) – Doctor of Pharmacy**

College of Pharmacy, University of Arkansas for Medical Sciences

*Lecture: Pharmacy Operations*

**Residency Research Certificate**

College of Pharmacy, University of Arkansas for Medical Sciences

*Lecture: Conducting Statistical Analyses in Excel*

**Drug, Biologic, and Device Regulation (REGS 603) - Masters in Regulatory Science**

Graduate Program, College of Pharmacy, University of Maryland Baltimore

*Lecture: An Overview of the Regulation of Medical Devices*

**Regulated Products in the Marketplace (REGS 641) - Masters in Regulatory Science**

Graduate Program, College of Pharmacy, University of Maryland Baltimore  
*Lectures: Healthcare Databases in Pharmacoepidemiology Part I, Healthcare Databases in Pharmacoepidemiology Part II, Critical Review of Pharmacoepidemiology Research Part I, Critical Review of Pharmacoepidemiology Research Part II*

### **Medical Evidence (PHAR 5009) – Doctor of Pharmacy**

College of Pharmacy, University of Maryland Baltimore

*Team-Based Learning Sessions: Critically Appraising a Systematic Review, Critically Appraising a Randomized Controlled Trial (RCT)*

## **RESEARCH**

### **Peer-Reviewed Publications**

\*denotes corresponding author

\*Saini M, Kc G, Williams AJ, Coplan PM, Gressler LE. Regulatory Challenges and Opportunities: A Review of U.S. Food and Drug Administration-Approved Artificial Intelligence and Machine Learning-Enabled Cardiovascular Devices. *Ther Innov Regul Sci*. 2025 Nov 23. doi: 10.1007/s43441-025-00896-7. Epub ahead of print. PMID: 41276747.

\*Gressler LE, Radoja A, Cowley T, Velezis M, Clare D, Kusiak J, Cowley A, Marinac-Dabic D. Temporomandibular disorders (TMD) at a crossroads: Meeting summary. *Int J Transl Med Res Public Health*. 2025; Epub ahead of print.

\*Gressler LE, Patton MQ. Sustainable, cooperative, inclusive, organized networks and translational health: A book review of *Saving Societies From Within: Innovation and Equity Through Inter-Organizational Networks*. *Int J Transl Med Res Public Health*. 2025; Epub ahead of print. doi:10.25259/IJTMRPH\_34\_2025.

Yogurtcu ON, Gressler LE, Eldrup-Jorgensen J, Haqqi K, Shepard C, Panagiotou OA, Molina SJ, Goodney PP, Abbasi AB, Anderson BS, Hadden WC, Tchong JE, Skapik J, Pappas G. Building real-world evidence infrastructure to improve health and healthcare in the United States: Part III — Questions for Translational Science and Action Theory. *Int J Transl Med Res Public Health*. 2025; Epub ahead of print.

Yogurtcu ON, Gressler LE, Eldrup-Jorgensen J, Haqqi K, Shepard C, Panagiotou OA, Molina SJ, Goodney PP, Abbasi AB, Anderson BS, Hadden WC, Tchong JE, Skapik J, Pappas G. Building real-world evidence infrastructure to improve health and healthcare in the United States: Part II—How coordinated registry networks operate like a systemic coordinated inter-organizational network. *Int J Transl Med Res Public Health*. 2025; Epub ahead of print.

Yogurtcu ON, Gressler LE, Eldrup-Jorgensen J, Haqqi K, Shepard C, Panagiotou OA, Molina SJ, Goodney PP, Abbasi AB, Anderson BS, Hadden WC, Tchong JE, Skapik J, Pappas G. Building real-world evidence infrastructure to improve health and healthcare in the United States: Part I—Coordinated registry networks and systemic coordinated inter-organizational networks. *Int J Transl Med Res Public Health*. 2025;9(Suppl 1):S15–S18. doi:10.25259/IJTMRPH\_74\_2024.

\*Juneau R, Kc G, Rittel AG, Rittel M, Brown J, Lutgendorf MA, Highland KB, Costantino RC, Gressler LE. Contraceptive Prescribing and Dispensing After the Defense Health Agency's Policy Change. *JAMA Netw Open*. 2025 Oct 1;8(10):e2539451. doi: 10.1001/jamanetworkopen.2025.39451. PMID: 41143794; PMCID: PMC12559968.

Gressler LE, Elterman DS, Bhojani N, Chughtai B. Patient Work-Up in the Modern Workplace: Role of Remote and Non-Invasive Diagnostics. *Urol Clin North Am*. 2025 Nov;52(4):489-502. doi: 10.1016/j.ucl.2025.07.008. Epub 2025 Aug 26. PMID: 41106978.

Gressler L, Lewis K. Changes in maternal morbidity and infant outcomes following state-level abortion bans post-Dobbs: a comparative interrupted time series study. *BMC Public Health*. 2025 Jul 2;25(1):2265. doi: 10.1186/s12889-025-23468-8. PMID: 40604725; PMCID: PMC12217988.

\*Atkinson TJ, Petway J, Forbes WL, Thorfinnson H, Costantino RC, Gressler LE. Generation of Risk Score for Serious Non-Steroidal Anti-Inflammatory Drug (NSAID) Induced Cardiovascular Events (NAÏVE) Among Active-Duty Service Members and Veterans. *J Pain Res*. 2025 Mar 6;18:1081-1094. doi: 10.2147/JPR.S503743. PMID: 40066299; PMCID: PMC11892502.

\*Gressler LE, Sze C, Punyala A, Martinez-Diaz S, Bhojani N, Zorn K, Elterman DS, Chughtai B. Opioid Prescribing Among Commercially Insured Men Undergoing a Procedure for the Treatment of Benign Prostatic Hyperplasia. *Canadian Urological Association Journal*.

Elterman, D., Bhojani, N., Lee, K., Jung, J., Doo, K., Gressler, L. E., & Chughtai, B. (2024). Evaluation of proudP: A sound-based approach to uroflowmetry. *Canadian Urological Association Journal*, 19(1). <https://doi.org/10.5489/cuaj.8870>

Baltz AP, Peng C, Gressler L, Bhatti S, Lewis K. Association Between Medical Marijuana Cardholder Status and Antiemetic Overuse. *Cannabis Cannabinoid Res*. 2024 Oct 17. doi: 10.1089/can.2024.0083. Epub ahead of print. PMID: 39419579.

\*Gressler LE, Marinac-Dabic D, Resnic FS, Williams S, Yang K, Weichold F, Avila-Tang E, Mack C, Coplan P, Panagiotou OA, Pappas G. A Comprehensive Framework for Evaluating the Value Created by Real-World Evidence for Diverse Stakeholders: The Case for Coordinated Registry Networks. *Ther Innov Regul Sci*. 2024 Jul 25. doi: 10.1007/s43441-024-00680-z. Epub ahead of print. PMID: 39060838.

\*Sze C, Singh Z, Tawfello G, Chughtai B, Bhojani N, Zorn KC, Elterman D, Gressler LE. National Long-Term Trends in Postoperative Opioid Prescribing in Ambulatory Urology Procedures. *Urol Pract*. 2024 Jun 19:101097UPJ0000000000000639. doi: 10.1097/UPJ.0000000000000639. Epub ahead of print. PMID: 38913588.

\*Lewis KN, Zhang D, Corrales G, Eswaran H, Hayes CJ, Gressler LE. Telehealth Utilization for Opioid Use Disorder: A Nationwide Analysis Before and After the COVID-19 Public Health Emergency Declaration. *Telemed J E Health*. 2024 Apr 15. doi: 10.1089/tmj.2024.0122. Epub ahead of print. PMID: 38621153.

Pandit AA, Halpern MT, Gressler LE, Kamel M, Payakachat N, Li C. Association of race/ethnicity and patient care experiences with healthcare utilization and healthcare costs among prostate cancer survivors: A SEER-CAHPS study. *J Geriatr Oncol*. 2024 Apr;15(3):101748. doi: 10.1016/j.jgo.2024.101748. Epub 2024 Mar 16. PMID: 38493533.

Forbes WL, Petway J, Gressler LE, Thorfinnson H, Costantino RC, Atkinson TJ. Identifying Risk Factors for Cardiovascular Events Among Active-Duty Service Members and Veterans Prescribed Nonsteroidal Anti-Inflammatory Drugs (NSAIDs). *J Pain Res*. 2024;17:1133-1144 <https://doi.org/10.2147/JPR.S440802>

Costantino R, Gressler LE, Zarzabel LA, Vasquez C, Juneau R. Medication Trends in the Military: A Comparative Analysis of Prescribing Patterns among Service Members seen by a Pharmacist and Implications for Medical Readiness. *Mil Med*. 2024 Feb 22;usae024. doi: 10.1093/milmed/usae024. Epub ahead of print. PMID: 38394445.

\*Gressler LE, Avila-Tang E, Tomes M, Mao J, Avalos Pacheco A, Shaya FT, Torosyan Y, Liebeskind A, Kinard M, Mack, C, Normand SL, Ritchey MB, Marinac-Dabic D. Data Sources and Applied Methods for Paclitaxel Signal Discernment. *Frontiers Cardiovascular Medicine - Cardiovascular Pharmacology and Drug Discovery*. Volume 10. 2024 Feb 23. doi: [10.3389/fcvm.2023.1331142](https://doi.org/10.3389/fcvm.2023.1331142)

Oehrlein EM, Schoch S, Majercak K, Gressler LE, Costantino RC, Love TR, Perfetto EM; National Health Council's Patient Experience Mapping Workgroup. Development and Testing of a Chronic-Disease Patient Experience Mapping Toolbox. *Patient*. 2024 Jan 3. doi: 10.1007/s40271-023-00658-3. Epub ahead of print. PMID: 38172406.

Costantino RC, Gressler LE, Highland K, Oehrlein E, Villalonga-Olives EV, Perfetto E. Patient-Centeredness and Psychometric Properties of the Defense and Veterans Pain Rating Scale 2.0 (DVPRS). *Pain Med*. 2024 Jan 4;25(1):57-62. doi: 10.1093/pm/pnad125. PMID: 37699011.

Pandit AA, Halpern MT, Gressler LE, Kamel M, Payakachat N, Li C. Association of race/ethnicity and patient care experiences with receipt of definitive treatment among prostate cancer survivors: a SEER-CAHPS study. *Cancer Causes Control*. 2023 Nov 25. doi: 10.1007/s10552-023-01834-4. Epub ahead of print. PMID: 38001335.

Iorga A, Velezis MJ, Marinac-Dabic D, Lario RF, Huff SM, Gore B, Mermel LA, Bailey LC, Skapik J, Willis D, Lee RE, Hurst FP, Gressler LE, Reed TL, Towbin R, Baskin KM. Venous Access: National Guideline and Registry Development (VANGUARD): Advancing Patient-Centered Venous Access Care Through the Development of a National Coordinated Registry Network. *J Med Internet Res*. 2023 Nov 24;25:e43658. doi: 10.2196/43658. PMID: 37999957; PMCID: PMC10709786.

\*Gressler LE, Ramkumar N, Marinac-Dabic D, dosReis S, Goodney P, Mullins CD, Shaya FT. The Association of Major Adverse Limb Effects and Combination Stent and Atherectomy in Patients Undergoing Revascularization for Lower Extremity Peripheral Artery Disease. *Catheter Cardiovasc Interv*. 2023; 1-13. doi:[10.1002/ccd.30799](https://doi.org/10.1002/ccd.30799)

Pandit AA, Gressler LE, Halpern MT, Kamel M, Payakachat N, Li C. Differences in racial/ethnic disparities in patient care experiences between prostate cancer survivors and males without cancer: A SEER-CAHPS study. *J Geriatr Oncol*. 2023 Jun 13;14(6):101554. doi: 10.1016/j.jgo.2023.101554. Epub ahead of print. PMID: 37320932.

\*Gressler LE, Cowley T, Velezis M, Aryal S, Clare D, Kusiak JW, Cowley AW, Sedrakyan A, Marinac-Dabic D, Reardon M, Schmidt L, Feldman JG, DiFabio V, Bergman S, Simonyan V, Yesha Y, Vasiliu-Feltes I, Durham J, Steen AI, Woods P, Kapos FP, Loyo-Berrios N. Building the foundation for a modern patient-partnered infrastructure to study temporomandibular disorders. *Front Digit Health*. 2023 May 15;5:1132446. doi: 10.3389/fdgh.2023.1132446. PMID: 37255961; PMCID: PMC10226081.

Gressler LE, Crowley K, Berliner E, Leroy H, Krofah E, Eloff B, Marinac-Dabic D, Vythilingam M. A Quantitative Framework to Identify and Prioritize Critical Gaps and Opportunities in Public Health and Biomedical Innovation: A Proof of Concept Study. *JAMA Health Forum*. 2023;4(5):e230894. doi:[10.1001/jamahealthforum.2023.0894](https://doi.org/10.1001/jamahealthforum.2023.0894)

Nieuwenhuijse MJ, Randsborg PH, Hyde JH, Xi W, Franklin P, Kazemzadeh-Narbat M, Sun L, Zheng X, Banerjee S, Mao J, Aryal S, Chen A, Liebeskind A, Bonangelino P, Voorhorst P, Devlin V, Peat R, Gressler LE, Marinac-Dabic D, Paxton E, Sedrakyan A. Evidence Based Objective Performance Criteria for Evaluation of Hip and Knee Replacement Devices and Technologies. *International Journal of Surgery* (); April 10, 2023. <https://doi.org/10.1097/JS9.000000000000169>.

\*Gressler LE, Sedrakyan A. Enhancing collaboration, access, and research using patient-generated data. *RF Quarterly*. 2023;3(1):43-52. Published online 22 March 2023. <https://www.raps.org/news-and-articles/news-articles/2023/3/hive-enhancing-collaboration-access-and-research-u>

Pandit AA, Gressler LE, Halpern MT, Kamel M, Payakachat N, Li C. Racial/Ethnic Disparities in Patient Care Experiences among Prostate Cancer Survivors: A SEER-CAHPS Study. *Current Oncology*. 2022; 29(11):8357-8373. <https://doi.org/10.3390/curroncol29110659>

Costantino RC, Baltz A, Leonard J, Gorman E, Ventura D, Gressler LE. Benzonatate Safety and Effectiveness: A Systematic Review of the Literature. *Annals of Pharmacotherapy*. 2023. <https://doi.org/10.1177/10600280221135>

Costantino RC, Tilley L, Gressler LE, Zarzabal LA, Vasquez CM, Peters S, Pakieser J, Highland K, dosReis S. Naloxone Prescribing Associated with Reduced Emergency Department Visits in the Military Health System. *Medical Care*: October 17, 2022 - Volume - Issue - 10.1097/MLR.0000000000001782 doi: 10.1097/MLR.0000000000001782

Oehrlein EM, Burcu M, Schoch S, Gressler LE. Enhancing Patient Centricity of Real-World Data Research: An Exploratory Analysis Using the Patient Experience Mapping Toolbox. *Value Health*. 2023 Jan;26(1):10-17. doi: 10.1016/j.jval.2022.10.002. Epub 2022 Dec 7. PMID: 36494301.

\*Gressler LE, Marinac-Dabic D, dosReis S, Goodney P, Mullins CD, Shaya F. Creation of objective performance criteria among medical devices. *BMJ Surg Interv Health Technol*. 2022 Aug 1;4(1):e000106. doi: 10.1136/bmjst-2021-000106. PMID: 35989873; PMCID: PMC9345051.

LeRoy H, Gressler LE, Liebeskind D, Siddiqui A, Ansari S, Pena C, Marinac-Dabic D, Sedrakyan A. Developing the Foundation for Assessment of Acute Ischemic Stroke Interventions using a Coordinated Registry Network. *BMJ Surgery, Interventions, & Health Technologies* 2022;4:e000113. doi: 10.1136/bmjst-2021-000113

Baird C, Meyers E, Jacoby V, Gressler LE, Venable S, O'Neill A, Sedrakyan A, Marinac-Dabic D. Development of a core minimum data set to advance real-world evidence generation for uterine fibroids treatment technologies. *BMJ Surgery, Interventions, & Health Technologies* 2022;4:e000094. doi: 10.1136/bmjst-2021-000094

Baird C, Guiahi M, Chudnoff S, Loyo-Berrios N, Garcia S, Jung M, Gressler LE, Hodshon B, Sedrakyan A, Andrews S, Colden K, Roberts J, Anderson A, Sewell C, Marinac-Dabic D. Building Blocks for the Long-acting and Permanent Contraceptives Coordinated Registry Network. *BMJ Surgery, Interventions, & Health Technologies* 2022;4:e000075. doi: 10.1136/bmjst-2020-000075

\*Gressler LE, Devlin VJ, Jung M, Marinac-Dabic D, Sedrakyan A, Paxton EW, Franklin P, Navarro R, Ibrahim S, Forsberg J, Voorhorst PE, Zusterzeel R, Vitale M, Rosinia K, Marks MC, Newton PO, Peat R. Orthopedic Coordinated Registry Network (Ortho-CRN): Advanced Infrastructure for Real-World Evidence Generation. *BMJ Surgery, Interventions, & Health Technologies* 2022;4:e000073. doi: 10.1136/bmjst-2020-000073

Hayes CJ, Koonce RM, Gressler LE, Hu B, Han X, Jones B, Williams JS, Martin BC. Association between opioid therapy trajectories and potential opioid-related adverse health events. *Pharmacoepidemiol Drug Saf.* 2022 Jun 13. doi: 10.1002/pds.5495. Epub ahead of print. PMID: 35695189.

Costantino RC, Barlow A, Gressler LE, Zarzabal LA, Tao D, McPherson ML. Variability among Online Opioid Conversion Calculators Performing Common Palliative Care Conversions. *J Palliat Med.* 2021 Oct 20. doi: 10.1089/jpm.2021.0041. Epub ahead of print. PMID: 34668804.

Hayes CJ, Gressler LE, Hu B, Jones B, Williams JS, Martin BC. Trajectories of Opioid Coverage after Long-Term Opioid Therapy Initiation among a National Cohort of U.S. Veterans. *J Pain Res.* 2021 Jun 14;14:1745-1762. doi: 10.2147/JPR.S308196. PMID: 34163232; PMCID: PMC8214015.

Chen A, Paxton L, Zheng X, Peat R, Mao J, Liebeskind A, Gressler LE, Marinac-Dabic D, Devlin V, Cornelison T, Sedrakyan A. Association of sex with risk of 2-year revision for patients undergoing total hip arthroplasty. *JAMA Netw Open.* 2021;4(6):e2110687. doi:10.1001/jamanetworkopen.2021.10687

\*Gressler LE, DosReis S, Chughtai B. Opioid Use and Risks among Commercially Insured Women Undergoing Pelvic Organ Prolapse Repair. *Pharmacoepidemiology and Drug Safety.* 2021 Apr 2. doi: 10.1002/pds.5239. Epub ahead of print. PMID: 33797822.

Titus-Glover D, Shaya FT, Welsh C, Qato DM, Shah S, Gressler LE, Vivrette R. Opioid use disorder in pregnancy: leveraging provider perceptions to inform comprehensive treatment. *BMC Health Serv Res.* 2021 Mar 10;21(1):215. doi: 10.1186/s12913-021-06182-0. PMID: 33691677; PMCID: PMC7945667.

\*Gressler LE, Baltz AP, Costantino RC, Slejko JF, Onukwugha E. Exploring the Use of State Medical Cannabis Legislation as a Proxy for Medical Cannabis Use among Patients Receiving Chemotherapy. *Curr. Treat. Options in Oncol.* 22, 1 (2021). <https://doi.org/10.1007/s11864-020-00803-2>

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Baltz AP, Gressler LE, Costantino RC, McPherson ML. Nonprescription Medication Use in Hospice Patients. *Am J Hosp Palliat Care.* 2019 Sep 17:1049909119876259. doi: 10.1177/1049909119876259. PubMed PMID: 31529974.

\*Gressler LE, Natafagi N, Shaneman-Robinson B, DeForge B, Welsh C, Shaya FT. What motivates people with substance use disorders to pursue treatment? A patient-centered approach to understanding patient experiences and patient-provider interactions. *Journal of Substance Use*, 24:6, 587-599, 2019. DOI: 10.1080/14659891.2019.1620891

Gressler LE, Shah S, Park L, Shaya FT. Association of Criminal Statutes for Opioid Use Disorder With Prevalence and Treatment Among Pregnant Women With Commercial Insurance in the United States. *JAMA Network Open.* 2 (3):e190338-e190338. 2019.

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### **Abstracts**

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Gressler L, Bona J, Sexton K. EPH169 Integrating Structured and Unstructured Data in Total Hip Arthroplasty Evaluation: A Comprehensive Analysis for Enhanced Device Safety. *Value in Health*. 2024 Jun 1;27(6):S183.

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Baltz A, Peng C, Gressler LE, Bhatti SA, Lewis K. Exploring the association between medical marijuana cardholder status and antiemetic overuse. *Journal of Clinical Oncology*. 41, no. 16\_suppl (June 01, 2023) e18812-e18812. doi: 10.1200/JCO.2023.41.16\_suppl.e18812

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Wolde F, Gressler LE. Use of Remdesivir Among Hospitalized Patients with Severe COVID-19: Analysis of Electronic Health Records from Trinextx COVID-19 Network. *Value in Health*, Volume 25, Issue 7, Supplement 2022, Page S330.

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Gressler LE, Marinac-Dabic D, dosReis S, Goodney P, Mullins CD, Shaya FT. The Association of Major Adverse limb Events and Combination Stent and Atherectomy in Patients Undergoing Revascularization for Lower Extremity Peripheral Artery Disease. *Value in Health* 24 (2021): S127.

Gressler LE, Marinac-Dabic D, dosReis S, Goodney P, Mullins CD, Shaya FT. A Framework for the Creation of Objective Performance Criteria Among Medical Devices: Reflections from Stakeholders. *Value in Health* 24 (2021): S125.

Gressler LE, Marinac-Dabic D, dosReis S, Goodney P, Mullins CD, Shaya FT. Comparing Machine-Learning Methods for the Prediction of Major Adverse Limb Events and Mortality after a Percutaneous Intervention. *Value in Health* 24 (2021): S1-S2.

Gressler LE, Natafqi N, Shaneman-Robinson B, DeForge B, Welsh C, Shaya FT. What motivates people with substance use disorders to pursue treatment? A patient-centered approach to understanding patient experiences and patient-provider interactions. *Value in Health* (22), S23610.1016/j.jval.2019.04.1103.

Costantino R, Gressler LE, Rothwell C, Groninger H, Kearney C, Walker K. Examining the Effects of Palliative Telehealth Connecting Hospital to Home (Patch) Program on Quality of Life. *Journal of Pain and Symptom Management*. 46(6): e104, 2018.

Gressler LE, Li C. Trends in Healthcare Expenditures, Utilization, and Health Status Among US Patients with Rheumatoid Arthritis from 1998-2014: A Report from the Medical Expenditure Panel Survey. *Value in Health*. 20(5):A144-A144, 2017.

Gressler LE, Payakachat N. Quality of life of adults with self-reported prostate cancer: A report from the Medical Expenditure Panel Survey. *Quality of Life Research* (25), 115-116, 2016.

Gressler LE, Kathe N, Painter, JT. Assessing the Potential Risk of Serotonin Syndrome in Tapentadol Users. *Value in Health*; 19(3): A241, 2016.

### **Non-Peer Reviewed Publications**

Oehrlein EM, Schoch S, Majercak K, Gressler LE, Perfetto EM on behalf of Patient Experience Mapping Working Group. Patient Experience Mapping Toolbox. National Health Council; 2021. Available from: <https://nationalhealthcouncil.org/resources/patient-experience-map>

Oehrlein E, Perfetto E, Schoch S, Gressler LE, Mattingly J, Love TR. Patient-Centered Real-World Evidence: Methods Recommendations from an Evidence- Based Consensus Process. <https://nationalhealthcouncil.org/wp-content/uploads/2021/06/NHC-Patient-Centered-Real-World-Evidence-White-Paper-1.pdf>. June 2021.

Marinac-Dabic D, Aryal S, Azarbajani Y, Baird C, Chen A, Gressler L, Henry J, Jung M, Mao J, Minaei B, Taylor R, Sedrakyan A. The Women's Health Technologies Coordinated Registry Network (WHT-CRN): A report for the Office of the Assistant Secretary for Planning and Evaluation.

[https://9a8ad4b9-d27b-46ff-9aa0-f3457074f526.filesusr.com/ugd/361e0e\\_bf040bd8f23b48a182394b0d6ce9eb04.pdf](https://9a8ad4b9-d27b-46ff-9aa0-f3457074f526.filesusr.com/ugd/361e0e_bf040bd8f23b48a182394b0d6ce9eb04.pdf). May 2020.

John J, Choi C, Vaffis S, Gandhi A, Gressler LE, Okoli G, Shaikh N, Patel J, Degeling K. By the Numbers: Artificial Intelligence in Health – Trial and Tribulations. ISPOR Value and Outcomes Spotlight. March/April 2019, Vol 5, No. 2, Page 20. (*In print – All authors had equal contribution*)

## **Book Chapters**

Baltz AP, Gressler LE, and Costantino RC, 'Duloxetine for the Treatment of Chemotherapy-Induced Peripheral Neuropathy', in Mary Lynn McPherson, and others (eds), *50 Pharmacotherapy Studies Every Palliative Practitioner Should Know*, Fifty Studies Every Doctor Should Know (New York, 2025; online edn, Oxford Academic, 1 Jan. 2025), <https://doi.org/10.1093/med/9780197770337.003.0011>

## **Presentations**

### **Conference Podium Presentations**

Gressler, LE, Ali, M, Zhang, D, Denduluri A, Hayes, CJ, Eswaran, H, Lewis KN. Neonatal Abstinence Syndrome Prevalence before and during the COVID-19 by Punitive or Reporting Law Status. A podium presentation at the *Addiction Health Services Research Annual Meeting*. San Francisco, CA. October 18, 2024.

Gressler LE, Marinac-Dabic D, dosReis S, Goodney P, Mullins CD, Shaya FT. Comparing Machine-Learning Methods for the Prediction of Major Adverse Limb Events and Mortality after a Percutaneous Intervention. A Pre-Release Presentation at the International Society for Pharmacoeconomics and Outcomes Research International Meeting. Virtual Meeting. May 17-May 20, 2021

Gressler LE, Berliner E. Identifying Health Innovation Gaps: A Landscape Analysis. A Pre-Release Presentation at the International Society for Pharmacoeconomics and Outcomes Research International Meeting. Virtual Meeting. May 17-May 20, 2021.

Gressler LE, Villalonga-Olives E, Camelo-Castillo W. Impact of Multimorbidity and Age on Quality of Life. A Podium Presentation at the American Public Health Association Annual Meeting. Philadelphia, PA, USA. Nov 3-6, 2019.

Gressler LE, Shah S, Shaya F. Age variations in the prevalence of opioid use disorders, treatment, and treatment types in a commercially insured population of pregnant women in the United States. A Podium Presentation at the Society of Epidemiologic Research Annual Meeting. Baltimore, MD, USA. June 19-22, 2018.

Gressler LE, Feldkoren B, Margulis V. Methylation Sensitive High Resolution Melt in the Study of the E-Cadherin Promoter. A Podium Presentation at the National Conference for Undergraduate Research. Lexington, KY, USA. March 14, 2014

### **Conference Poster Presentations**

KC, G, Juneau R, Rittel A, Costantino R, Gressler LE. Contraceptive Utilization, Adherence, and Pregnancy Outcomes Among Active Duty Service Women. A Spotlight poster presentation at the International Society for Pharmacoepidemiology Annual Conference, Washington, DC, August 2025. [Spotlight Poster]

Corrales, G, Lewis, K.N., Zhang, D., Hayes C.J., Eswaran, H., Gressler, L. Telehealth Utilization for Opioid Use Disorder Analysis Before and After the COVID-19 Public Health Emergency Declaration. Society of Teachers of Family Medicine Annual Conference, Los Angeles, May 2024.

Desai B, Gressler LE, Mattingly TJ, Perfetto EM. Characteristics of data sources and inputs used in value and health technology assessment economic evaluations: a pilot analysis. A Poster Presentation at

the International Society for Pharmacoeconomics and Outcomes Research International Meeting. National Harbor, Maryland. 2022.

Desai B, Gressler LE, Mattingly TJ, Perfetto EM. Guidance on evaluating data sources and inputs for economic evaluations. A Poster Presentation at the Academy of Managed Care Pharmacy Annual Meeting. Chicago, Illinois. March 29-April 1, 2022.

Gressler LE, Marinac-Dabic D, dosReis S, Goodney P, Mullins CD, Shaya FT. A Framework for the Creation of Objective Performance Criteria among Medical Devices. A Poster Presentation at the International Society for Pharmacoeconomics and Outcomes Research International Meeting. Virtual Meeting. May 17-May 20, 2021

Gressler LE, Marinac-Dabic D, dosReis S, Goodney P, Mullins CD, Shaya FT. The Association of Major Adverse Limb Effects and Combination Stent and Atherectomy in Patients Undergoing Revascularization for Lower Extremity Peripheral Artery Disease. A Poster Presentation at the International Society for Pharmacoeconomics and Outcomes Research International Meeting. Virtual Meeting. May 17-May 20, 2021

Azarbajani Y, Jung M, Gressler LE, Informatics Working Group, Marinac-Dabic D. The Standardization of Data Elements Identified in the Women's Health Technologies Coordinated Registry Network (WHT-CRN). A Poster Presented at the FDA-Wide 2019 Annual Summer Student Scientific Poster Day. Silver Spring, MD, USA. August 7, 2019.

Baltz AP, Costantino RC, Gressler LE, McPherson ML. Sex Differences in Over the Counter Medication Use Among Hospice Patients Diagnosed with Cancer. International Palliative Care Network Poster Exhibition. November 15, 2019.

Gressler LE, McRae J, Bajracharya R, Olopenia A, Camelo-Castillo W, Qato DM. "Does the Methodology to Measure Multimorbidity Matter? Assessing Measurement Techniques of Multimorbidity in Nationally-Representative Medical Expenditure Panel Survey". A Poster Presented at the American Public Health Association Annual Meeting. Philadelphia, PA, USA. Nov 3-6, 2019.

Gressler LE, Natafagi NM, DeForge B, Robinson-Shaneman B, Welsh C, Shaya FT. "What motivates people with substance use disorders to pursue treatment? A patient-centered approach to understanding patient experiences and patient-provider interactions." A Poster Presented at the International Society of Pharmacoeconomics and Outcomes Research 24<sup>th</sup> Annual International Meeting. New Orleans, LA, USA. 2019 May 18-22, 2019.

Costantino R, Gressler LE, Rothwell C, Groninger H, Kearney C, Walker K. Examining the Effects of Palliative Telehealth Connecting Hospital to Home (Patch) Program on Quality of Life. A Poster Presented at the 22nd International Congress on Palliative Care. Montréal, Canada. October 2-5, 2018.

Gressler LE, Shah S, Shaya F. "Prevalence of opioid use disorder, treatment, treatment type among pregnant women, and adverse outcomes in newborns by state criminal or civil statues pertaining to gestational opioid use in a commercially insured pregnant population." A Poster Presentation at the Academy Health Annual Meeting. Seattle, WA, USA. June 24-26, 2018.

Gressler LE, Hudson TJ, Painter JT. "The Effect of Psychotropic Load on Adverse Outcomes Among Veterans Using Opioids." A Poster Presentation at the Academy Health Annual Meeting. Seattle, WA, USA. June 24-26, 2018.

McRae J, Qato DM, Gressler LE, Olopenia A, Camelo-Castillo W. "Access to Health Insurance Among Non-Elderly Adults with Complex Multimorbidity after Passage of the Affordable Care Act." A Poster Presented at the International Society of Pharmacoeconomics and Outcomes Research 23rd Annual International Meeting. Baltimore, MD, USA. May 19-23, 2018.

Gressler LE, Shah S, Shaya F. "Regional variations in the prevalence of opioid use disorders treatment among pregnant women, and newborns with adverse outcomes in a commercially insured pregnant population." A Poster Presented at the International Society of Pharmacoeconomics and Outcomes Research 23rd Annual International Meeting. Baltimore, MD, USA. May 19-23, 2018.

Gressler LE, Li C. "Trends in Healthcare Expenditures, Utilization, and Health Status Among US Patients with Rheumatoid Arthritis from 1998-2014: A Report from the Medical Expenditure Panel Survey." A poster Presented at the International Society for Pharmacoeconomics and Outcomes Research International Meeting. Boston, MA, USA. May 22nd, 2017.

Gressler LE, Payakachat N. Quality of life of adults with self-reported prostate cancer: A report from the Medical Expenditure Panel Survey. A Poster Presented at the International Society for Quality of Life Research International Meeting. Copenhagen, Denmark. October 21, 2016

Gressler LE, Kathe N, Painter, JT. Assessing the Potential Risk of Serotonin Syndrome in Tapentadol Users. A Poster Presented at the International Society for Pharmacoeconomics and Outcomes Research International Meeting. Washington, DC, USA. May 25, 2016.

## GRANTS AND FELLOWSHIPS

STARS: Leveraging Real-World Data to Investigate the Interplay Between Healthcare Utilization, Treatment Patterns, and Mental Health Outcomes in Temporomandibular Joint Disorders. PI: Laura Gressler. Role: Principal Investigator; Funding: UAMS Translational Research Institute (TRI) ; \$10,000; July 2025 – May 2026.

Contraceptive Care Among Active-Duty Service Women. PIs: Laura E Gressler and Ryan C. Constantino. Role: Co-Principal Investigator; Funding: Defense Health Agency Military Health Services Research. \$317,107; September 2023 – September 2025.

IMPOWR. PI: William Becker. Role: Co-Investigator; Funding: National Institute for Drug Abuse. ; September 2021 – September 2026.

Team Science Voucher: Exploring the Association between Medical Marijuana Status and Antiemetic Overuse. PI: Kanna Lewis. Role: Co-Investigator; Funding: UAMS Translational Research Institute (TRI) ; \$20,000; September 2022 – September 2023.

Telemedicine Pre- and Post-Covid among Opioid-Use Disorder Diagnoses and Treatments. PI: Kanna Lewis and Laura Gressler. Role: Co-Principal Investigator; Health Resources and Services Administration. \$50,000; September 2022 – September 2023.

Data Scholars Program: Leveraging Natural Language Processing Methodologies for the Refinement of Signal Detection Algorithms in Electronic Health Records. PI: Laura Gressler. Role: Principal Investigator; Funding: UAMS Translational Research Institute (TRI) ; \$20,000; August 2022 – August 2023.

Oak Ridge Institute for Science and Education (ORISE) Fellowship. PI: Ruston Koonce. Role: Supervisor; Funding: Oak Ridge Institute for Science and Education (ORISE); \$35,000; August 2021 - September 2022.

Oak Ridge Institute for Science and Education (ORISE) Fellowship. PI: Laura Gressler. Role: Fellow; Funding: Oak Ridge Institute for Science and Education (ORISE); \$150,000; July 2018-September 2022.

A Patient-Centered Approach to Understanding the Motivational Factors Associated with the Pursuit of Treatment in Patients with Substance Use Disorders. PI: Laura Gressler and Dr. Fadia Shaya. Role: Co-Principal Investigator; Funding: PATIENTS Program – Agency for Healthcare Research and Quality (AHRQ); \$5,847; March 2018-September 2018.

Funds for Conference Presentations and Travel. PI: Polli J; Mentor: Shaya FT. Role: Scholar. Funding: Center of Excellence in Regulatory Science and Innovation (M-CERSI); \$1,500; September 2017 – September 2018.

Evaluation of the Partnership for Success Initiative. PI: Shaya FT; Role: Research Assistant. Funding: Behavioral Health Administration, SAHMSA, Maryland Department of Health and Mental Hygiene; \$215,000; August 2017 – August 2018.

Characterizing Psychotropic Use and Risk of Concomitant Psychotropic-Opioid Use in Opioid using Veterans. PI: Hudson TJ and Painter JT; Role: Research Assistant. Funding: South Central Mental Illness Research Education and Clinical Center; \$12,000; June 2017 – September 2017.

Characterization of implementation facilitators and barriers in VA HIV clinics: examination of the inner setting. PI: Painter JT; Role: Research Assistant. Funding: VA Center for Mental Healthcare & Outcomes Research, Locally Initiated Project; \$5,000; July 2016 – December 2016.

## REVIEWER

### Journals

Plos One	2025 - present
Future Oncology	2025 – present
Journal of the American College of Clinical Pharmacy	2024 - present
International Journal of Surgery	2024 - present
Preventative Medicine	2024 - present
BMC Pregnancy and Childbirth	2023 - present
Currents in Pharmacy Teaching and Learning	2023 - present
Archives of Public Health	2023 - present
International Journal of Surgery	2023 - present
BMC Health Services Research	2022 - present
Palliative Medicine Reports	2022 - present
Clinical Drug Investigation	2022 - present
Journal of Substance Use	2021 - present
BMC Public Health	2021 - present
Health Research Policy and Systems	2021 - present
British Medical Journal – Surgical, Interventions, and Health Technologies	2021 - present
Drug and Alcohol Dependence	2019 - present
Journal of the American College of Clinical Pharmacy	2019 - present
JAMA Open Network	2019 - present
Pain Medicine	2018 - present

### Meeting Abstracts

Society of Epidemiological Research	2018 - 2019
Academy Health	2019
International Society of Pharmacoeconomics and Outcomes Research	2019, 2023

## SERVICE

### University

Academic Policy Committee, Academic Senate Representative (2024-2025)  
Women's Faculty Development Committee - Faculty Development and Research Committee, Co-chair (2024-2026)  
Election Committee member (representative of COP) (2024)  
Systems Level Wellness and Fulfillment Committee (2023 – 2026)  
Faculty Affairs - (2021-2025) – University of Arkansas for Medical Sciences  
Academic Senate (2021-2026) – College of Pharmacy and Member at Large Representative, University of Arkansas for Medical Sciences  
Smoking Cessation Committee (2019-2020) - Student Representative, University of Maryland Baltimore  
ISPOR Student Chapter (2018-2019) - Business Manager, University of Maryland Baltimore

### College

Educational and Technology Support Advisory Committee (2022-2025)  
Post-Graduate Assessment and Outcomes Committee (2024-2026)  
Teaching Assistance Ad hoc Committee (2024)

### Department

Pharmaceutical Evaluation and Policy – Associate/Full Professor Faculty Search Committee (2022, 2023, 2024, 2025)  
Pharmaceutical Evaluation and Policy – PhD and MS Admissions Committee (2021-present)  
Pharmaceutical Health Services Research – PhD and MS Admissions Committee (2020-2021)  
Student Representative, University of Maryland Baltimore

### Professional Organizations

Member, ISPOR New Professionals Committee (2024-2025)  
Chair, Medical Device Special Interest Group, International Society for Pharmacoepidemiology (2023-2024)  
Member, RWE Collaborative Special Interest Group, International Society for Pharmacoepidemiology (2023-2025)  
Member, Digital Health Epidemiology Special Interest Group, International Society for Pharmacoepidemiology (2023-2025)  
Speaker, International Society for Pharmacoepidemiology Dos and Don'ts of Career (2022)  
Speaker, International Society of Pharmaceutical Outcomes Research Fireside Chat for Student Network (2022)  
Member, Medical Device Innovation Consortium (MDIC) Post-Market Working Group (2022)  
Secretary, MDEpiNet Advisory Executive Committee (2021 – present)

## ORGANIZATIONAL MEMBERSHIPS

### Professional Organizations

Member, International Society for Pharmacoepidemiology (2022 – 2026)  
Member, International Society of Pharmaceutical Outcomes Research (2016-2023)  
Member, American Association for College of Pharmacy (2021-2023)  
Member, American Public Health Association (2019-2020)  
Member, Society for Epidemiological Research (2018-2019)  
Member, Academy Health (2016-2018)  
Member, International Society for Quality of Life Research (2016-2017)

## HONORS AND AWARDS

- Chancellor’s Circle Grant - Protecting the Heartbeat of UAMS (2025)
- Hendrix College Outstanding Young Alumna Award (2025)
- Arkansas Money and Politics – Powerful Women (2025)
- AJPE Reviewer Mentorship Program (RMP) - Cohort #1 2022-2023
  - Selected among a national applicant pool to participate in the inaugural RMP cohort, a year-long mentorship program that provides an interactive "hands on" approach to manuscript reviewer training. Core objectives are to improve reviewer quality and increase reviewer quantity to benefit scholarship in the Academy.
- Leadership Greater Little Rock Class XXXIX (2023-2024)
- Arkansas Business – 20 in their 20s (2022)
- Top 5% of Reviewers for Drug and Alcohol Dependence (2021)
- US Food and Drug Administration, Center for Devices and Radiological Health Honor Award Recipient (June 2021)
  - Leveraging/Collaboration Award - MDEpiNet Orthopedics Group for excellence in collaboration between a public-private partnership to facilitate real world evidence development and research to further innovation in orthopedic devices.
- Rho Chi Honor Society (2019)
- Maryland Center of Excellence in Regulatory Science and Innovation (M-CERSI) scholar (2017) Travel Fund from Food and Drug Administration (FDA) - \$1,500
- Southern Collegiate Athletic Conference Academic Honor Roll (2011, 2012, 2013, 2014)
- Odyssey Distinction Award (2011, 2012, 2013, 2014)
- Hendrix Academic Scholarship (2011, 2012, 2013, 2014)

## ANCILLARY

### **Volunteer Action Committee**

**Conway, Arkansas**

#### *Advocacy Chair*

*September 2012 – May 2015*

- Organized four “React to Film” screenings with panels promoting discussion on social issues
- Planned “Spring Awareness Week” with the topic of “Mental Health: Eating Disorders”
- Served as service representative (2013-2014), and new student representative (2012-2013)

### **Mpilo Hospital**

**Bulawayo, Zimbabwe**

#### *Intern*

*December 2013*

- Project approved for funding by the Hendrix College Odyssey Program
- Shadowed doctors in the oncology department at Mpilo Hospital
- Interviewed physicians, patients, and healthcare workers; prepared final report analyzing differences in healthcare systems, physician work, and patient-physician relationships
- Participated in grand rounds; observed different treatment and diagnostic techniques

### **German Red Cross (Deutsches Rotes Kreuz)**

**Heidelberg, Germany**

#### *Summer Project Assistant*

*July 2012 – August 2012*

- Provided medical care to over 120 blood donors at the semi-annual blood drive
- Assisted emergency medical technicians and paramedics
- Organized and supervised a field trip for over 20 senior citizens Awards

## SKILLS AND INTERESTS

## **Languages**

- English, French, German (fluent, written and spoken)
- Spanish, Italian (conversational)

## **Skills**

- Programs: SAS, R, Stata, SQL Server Management Studio, Python, REDCap, MAXQDA, Atlas
- Databases: University of Arkansas for Medical Sciences Clinical Data Repository (AR-CDR), Arkansas All-Payers Claims Data (APCD), Medical Marijuana Cardholder Registry, Arkansas Cancer Registry, Agency for Healthcare Research and Quality State Inpatient Database (SID), Surveillance, Epidemiology, and End Results (SEER)-Medicare, Vascular Quality Initiative (VQI), IQVIA™ Health Plan Claims Data, Medical Expenditure Panel Survey (MEPS), Veteran's Health Administration (VHA), Institute for Health Metrics Global Burden of Disease (IHME-GBD)

## **Interests**

- Division III College Cross Country and Track and Field Runner
- Performed for Dallas Symphony Orchestra at the Meyerson as the cellist in the Cremona Ensemble and participated in The Institute for Strings, a two-week immersive master class program in chamber music