



Recent Publications and Presentations

Division of Clinical Data Analytics and Decision Support

Publications:

Woosley, RD, Romero, K, Heise, CW, Gallo, T, Tate, J, Woosley, RL. Summary of Torsades de Pointes (TdP) Reports Associated with Intravenous Drug Formulations Containing the Preservative Chlorobutanol. *Drug Safety* 2019

Martin, LG, Warholak, TL, Hincapie, AL, Gallo, T, Kjos, AL. Health Informatics Competencies for Pharmacists in Training. *American Journal of Pharmaceutical Education* 2019; 83 (2) Article 6512

Gallo, T, Curry, SC, Padilla-Jones, A, Heise, CW, Ramos, KS, Woosley, RL, Raschke, RA. A computerized scoring system to improve assessment of heparin-induced thrombocytopenia risk. *J Thromb Haemost* 2019

Raschke RA, Gerkin RD, Ramos KS, Fallon M, Curry SC. The explained variance and discriminant accuracy of APACHE IVa severity scoring in specific subgroups of ICU patients. *Southwest J Pulm Crit Care*. 2018;17:153-64. doi: <https://doi.org/10.13175/swjpc108-18>

Heise, CW, LoVecchio, F. "Hydrocarbons and Volatile Substances". *Tintinalli's Emergency Medicine 9th Edition*. Ed. Tintinalli, J, Stapczynski, JS, Ma, OJ, Yealy, D, Meckler, GD, Cline, DM. McGraw-Hill Education, 2018. PG. Print

Woosley, RL, Romero, K, Heise, CW, Gallo, T, Wooslet, RD. QTFactor.org: A companion database for use with QTdrugs.org. *Cardiology Today*. June 2018

Malone D, Gallo T, Beck J, Clark D. Feasibility of measuring QT intervals with a portable device. *Am J Health Syst Pharm*. 2017 Nov 15;74(22):1850-1. doi: 10.2146/ajhp170252. PMID: 29118043

Raschke RA, Groves RH, Khurana HS, Nikhanj N, Utter E, Harling D, Stoffer B, Nunn K, Tryon S, Bruner M, Calleja M, Curry SC. A quality improvement project to improve the Medicare and Medicaid Services (CMS) sepsis bundle compliance rate in a large healthcare system. *BMJ Open Quality*. 2017;0:e000080. doi:10.1136/bmjopen-2017-000080. PMID: 29450277

Raschke RA, Khurana H, Owen-Reece H, Groves RH, Curry SC, Martin M, Stoffer B. Clinical performance of an interactive clinical decision support system for assessment of plasma lactate in hospitalized patients with organ dysfunction. *Southwest J Pulm Crit*



Care. 2017;14:241- 252. Doi: 10.13175/swjpc058-17.

Raschke RA, Gallo T, Curry SC, Whiting T, Padilla-Jones A, Warkentin TE. Clinical Effectiveness of a Bayesian Algorithm for the Diagnosis and Management of Heparin-induced Thrombocytopenia. *J Thromb Haemost.* 15(8): 1640-1645. 2017 Nov.

Martin L, Warholak T, Hincapie A, Gallo T, Kjos A. Health Informatics Competencies for Pharmacists in Training. *Am J Pharm Educ.* ePub ahead of print. 2018 Mar.

Woosley RL, Romero K, Heise CW, Gallo T, Tate J, Woosley RD, Ward S. Adverse Drug Event Causality Analysis (ADECA): A Process for Evaluating Evidence and Assigning Drugs to Risk Categories for Sudden Death. *Drug Saf.* Jun;40(6):465-474. doi: 10.1007/s40264-017-0519-0. PMID: 28275963

Strauss DG, Vicente J, Johannesen L, Blinova K, Mason JW, Weeke P, Behr ER, Roden DM, Woosley RL, Kosova G, Rosenberg MA. Common Genetic Variant Risk Score Is Associated With Drug-Induced QT Prolongation and Torsade de Pointes Risk. *Circulation.* 2017 Apr 4;135(14):1300-1310. doi: 10.1161/CIRCULATIONAHA.116.023980. PMID: 28213480

Seitz D, Woosley RL, Baranchuk A, Hussain M, Maxwell CJ, Gill SS. Prevalence and Correlates of Use of Medications Associated with Prolongation of the Corrected QT Interval in Older Adults. *Am J Geriatr Psychiatry.* 25(3):S145-S146 · March 2017. doi: 10.1016/j.jagp.2017.01.169

Schwartz PJ, Woosley RL. Predicting the unpredictable: drug-induced QT prolongation and torsades de pointes. *J Am Coll Cardiol.* 2016 Apr 5;67(13):1639-1650. doi: 10.1016/j.jacc.2015.12.063. PMID: 27150690

Lorberbaum T, Sampson KJ, Woosley RL, Kass RS, Tatonetti NP. An integrative data science pipeline to identify novel drug interactions that prolong the QT interval. *Drug Safety.* 2016 May;39(5):433-41. doi:10.1007/s40264-016-0393-1. PMID: 26860921

Woosley RL, Whyte J, Mohamadi A, Romero K. Medical decision support systems and therapeutics: the role of autopilots. *Clin Pharmacol Ther.* 2016 Feb;99(2):161-4. doi: 10.1002/cpt.259. PMID: 26352903

Raschke RA, Owen-Reece H, Khurana H, Groves RH Jr, Curry SC, Martin M, Stoffer B, Uppalapu S, Seth H, Menon N. Clinical performance of an automated systemic inflammatory response syndrome (SIRS) / organ dysfunction alert: a system-based patient safety project. *Southwest J Pulm Crit Care.* 2014;9(4):223-9. doi: 10.13175/swjpc121-14



Presentations:

Olson K, Shamsid-Deen N, Fountain S, Raschke R. Clinical decision support system to locate mechanically ventilated patients with high-risk mortality. *Critical Care Medicine*. 2019;47:549.

Shamsid-Deen N, Olson K, Curry S, Raschke R. Discriminant accuracy and variance explained by predictor variables in severity scoring systems. *Critical Care Medicine*. 2019;47:160.

Tortora, L, Ruha, M, Ramos, K, Jaeschke, H, Rumack, B, Kang, AM, Padilla-Jones, A, Curry, S. Pharmacogenomic analysis of a patient with severe hepatotoxicity and hemolysis after acetaminophen overdose despite early N-acetylcysteine therapy. North American Congress of Clinical Toxicology, Chicago IL, October 25-29 2018.

Heise, CW, Gallo, T, Hachad, H, Shigaki, R, Curry, S. Identifying Target Populations for Pharmacogenomic Testing Implementation Using a Benefit Tool. PGRN-ASHG Conference, San Diego CA, October 15-16 2018.

Curry SC, Padilla-Jones A, Kang AM, Snow J, Heise CW. Serum ALT activity and commencement of N-acetylcysteine therapy as a predictor of hepatotoxicity and mortality in patients with acetaminophen toxicity. VRP 2018.

Heise CW, Raschke R, Curry SC, Gerkin D, Ramos KS, Gallo T, Woosley R. Initial impact of clinical decision support system to improve the safety of QT prolonging antibiotics. Valley Research Partnership 2018.

Heise CW, Raschke R, Curry SC, Gerkin D, Ramos KS, Gallo T, Woosley R. The design of an EMR-based clinical decision support system in a large healthcare system to improve antibiotic safety using a validated risk score. Valley Research Partnership 2018.

Bal H, Gallo T, Padilla-Jones A, Gerkin R, Raschke RA. Kappa Analysis of 4Ts Scoring of Heparin Induced Thrombocytopenia. Poster Presentation. American Thoracic Society Conference San Diego, CA, May 18th-23rd, 2018

Fountain, Assar, S, Heise, C, Curry, S, Raschke, RA. What's in a Chest Radiograph? Inter-Rater Variability in Determining Acute Respiratory Distress Syndrome. Poster Presentation. American Thoracic Society Conference San Diego, CA, May 18th-23rd, 2018

Gallo, T, Padilla-Jones, A, Bal, H, Curry, S, Ramos, K, Raschke, RA. Simplified 2Ts Score for Heparin-Induced Thrombocytopenia Risk. Poster Presentation. American Thoracic Society

Conference San Diego, CA, May 18th-23rd, 2018

Heise, C, Gallo, T, Raschke, RA, Curry, S, Woosley, R. Initial Impact of a Clinical Decision Support System to Improve the Safety of QT Prolonging Antibiotics. Poster Presentation. American Thoracic Society Conference San Diego, CA, May 18th-23rd, 2018

Assar, S, Fountain, S, Stoffer, B, Ramos, KS, Curry, S, Raschke, RA. A Clinical Decision Support System to Enable Precision Delivery of Evidence-Based Care to Mechanically-Ventilated Patients. Poster Presentation. American Thoracic Society Conference San Diego CA May 18th-23rd 2018

Heise, C, Gallo, T, Curry, S, Woosley, R. The Design of an Electronic Medical Record Based Clinical Decision Support System in a Large Healthcare System to Improve Antibiotic Safety Using a Validated Risk Score. Poster Presentation. American Thoracic Society Conference San Diego, CA, May 18th-23rd, 2018

Woosley RD, Romero K, Heise CW, Gallo T, Tate JL, Woosley RL. Reports of torsade de pointes (TdP) associated with intravenous (IV) drug formulations that contain the preservative chlorbutanol (CB). *Clin Pharmacol Ther.* 2017;101:s97.