

## Curriculum Vitae

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### Michael A. Veronin, B.S. Pharm., M.S., Ph.D., R.Ph.

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Tyler, Texas 75799  
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#### EDUCATION

2001-2002: Texas Tech University Health Sciences Center, Amarillo, Texas

##### **Post-doctoral Research Fellowship, School of Pharmacy**

- Concentrations: Health Informatics, Distance learning, Telepharmacy

1993-2000: University of North Texas, Denton, Texas

##### **Ph.D. in Information Sciences, Medical Informatics Track, Robert B. Toulouse School of Graduate Studies**

- Concentrations: Technology in health care, data mining, research synthesis

1990-1991: University of North Texas, Denton, Texas

##### **M.S. in Computer Education/Cognitive Systems, College of Education**

- Concentrations: Computer-assisted learning, instructional theory and design

1989-1990: University of Texas Southwestern Medical Center, Dallas, Texas

##### **Master's candidate in Biomedical Communications**

- Specialty in medical technical writing

1975-1977: University of Arizona, Tucson, Arizona

##### **Bachelor of Science in Pharmacy, College of Pharmacy**

- Clinical Pharmacy curriculum

#### ACADEMIC APPOINTMENTS

September 2023-Present: Professor, Department of Pharmaceutical Sciences and Health Outcomes, Ben and Maytee Fisch College of Pharmacy, the University of Texas at Tyler, Tyler, Texas, 3900 University Boulevard, Tyler, Texas 75799

September 2015-September 2023: Associate Professor, Dept. of Pharmaceutical Sciences, Ben and Maytee Fisch College of Pharmacy, the University of Texas at Tyler, Tyler, Texas, 3900 University Boulevard, Tyler, Texas 75799

June 2007-August 2015: Associate Professor, Department of Pharmaceutical Sciences, Texas A&M Health Science Center, Irma Lerma Rangel College of Pharmacy, MSC 131 1010 West Avenue B, Kingsville, Texas 78363-8202

- September 2008-September 2010: Assistant Dean for Curriculum and Education Development

September 2004-May 2007: Assistant Professor, Department of Pharmacy Practice, Division of Practice Management, Texas Tech University Health Sciences Center School of Pharmacy, 1300 S. Coulter Road, Amarillo, Texas 79106

## Michael A. Veronin

May 2002-August 2004: Assistant Professor, Department of Pharmaceutical Sciences, Texas Tech University Health Sciences Center School of Pharmacy, 1300 S. Coulter Road, Amarillo, Texas 79106

### PROFESSIONAL WORK EXPERIENCE

#### Hospital and Community-based Pharmacy Practice

**Institutions** (Since January 1978)

St. Paul Medical Center, Dallas, Texas

Veteran's Affairs Medical Center, Phoenix, Arizona

Maricopa Medical Center, Phoenix, Arizona

Maryvale Medical Center, Phoenix, Arizona

W.O. Boswell Memorial Hospital, Sun City, Arizona

Independent Contract Pharmacist, providing professional services to various medical centers and community pharmacies.

### PROFESSIONAL LICENSES and CERTIFICATIONS

Texas State Board of Pharmacy license No. 30667, since January 1988.

Texas State Board of Pharmacy Preceptor Certificate, since December 2004.

Sterile Products/Intravenous Admixtures Certification. Issued by the National Pharmacy Technician Association (NPTA), July 2013.

Oregon Institute for Patient-Centered Comparative Effectiveness (ICE) Annual Research Intensive. Certificate issued by Oregon Health & Science University, July 2013.

National Library of Medicine Bioinformatics education scholarship, Woods Hole, MA. Certificate awarded September 2010.

Discover OSCE-ology: Objective Structured Clinical Examination (OSCE) Professional Development Workshop. Certificate issued by the Leslie Dan Faculty of Pharmacy University of Toronto, Toronto, Ontario, Canada. June 2008.

### RESEARCH INTERESTS

Drug Safety, Health Informatics; Health Analytics; Health Outcomes.

### PATENT

Schumaker RP, **Veronin MA**, Dixit RR. U.S. Title: Pharmacovigilance System to Predict Drug Reaction Severity. The University of Texas at Tyler Provisional Application No. 62/989,413 (2692.0004). Approved for use through 11/30/2020. U.S. Patent and Trademark Office, U.S. Department of Commerce.

### BOOK CHAPTER

**Veronin MA**. Opioids and frequency counts in the US Food and Drug Administration adverse event reporting system (FAERS) database. In: Current Aspects in Pharmaceutical Research and Development Vol.8. B P international: UK, India. 2022.

### PUBLICATIONS (Peer-reviewed)

50. Ellsworth A, **Veronin MA**. Comparison of Tertiary Drug Information Resources With the CDC Guideline

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for Oxycodone Dosing: Are Patients at Risk? *J Pharm Technol.* 2023 Jun;39(3):103-109. doi: 10.1177/87551225231164897. Epub 2023 Apr 21.

49. Shoair OA, Smith WJ, Abdelaziz MH, **Veronin MA**, Glavy JS, Pirtle SJ. Pharmacy students' perceptions and attitudes toward face-to-face vs. virtual team-based learning (TBL) in the didactic curriculum: A mixed-methods study. *Medical Education Online.* 2023; 28(1). <https://doi.org/10.1080/10872981.2023.2226851>.

48. Reinert JP, **Veronin MA**, Medina C. Tricyclic Antidepressants in Nociceptive and Neuropathic Pain: A Review of Their Analgesic Properties in Combination with Opioids. *J Pharm Technol.* 2023 Feb;39(1):35-40. doi: 10.1177/87551225221139699.

47. **Veronin MA**. An Atypical Case of Extreme Polypharmacy. *Drug Healthc Patient Saf.* 2022 Mar 10;14:19-26. doi: 10.2147/DHPS.S332954.

46. Tiemann A, Butcher M; **Veronin MA**, Reinert JP. Evaluating the Efficacy and Safety of Calcium Channel Blockers as Adjunctive Analgesics to Opioid Therapy: A Literature Review. *J. Pharm. Pract. Res.* 2022; 52(1):7-18. DOI10.1002/jppr.1769.

45. Schumaker R, **Veronin MA**, Rohm T, Dixit RR, Aljawarneh S, Lara J. An Analysis of Covid-19 Vaccine Allergic Reactions. *Journal of International Technology and Information Management (JITIM).* 2021; 30(4), Article 2. Available at: <https://scholarworks.lib.csusb.edu/jitim/vol30/iss4/2>.

44. Schumaker RP, **Veronin MA**, Rohm T, Boyett MC, Dixit RR. A Data Driven Approach to Profile Potential SARS-CoV-2 Drug Interactions Using TylerADE. *Journal of International Technology and Information Management (JITIM).* 2021; 30(3), Article 5. URL: <https://scholarworks.lib.csusb.edu/jitim/vol30/iss3/5>.

43. Mattison R, Midkiff S, Reinert JP, **Veronin MA**. Muscle relaxants as adjunctive analgesics in the perioperative setting: A review of the literature. *J. Perioper Pract.* August 2021. doi:10.1177/17504589211015627.

42. Coronado B, Dunn J, **Veronin MA**, Reinert JP. Efficacy and Safety Considerations With Second-Generation Antipsychotics as Adjunctive Analgesics: A Review of Literature. *J Pharm Tech.* 2021;37(4):202-208. doi:10.1177/87551225211004145

41. Reinert JP, Nuon K, **Veronin M**. Carbamazepine, Oxcarbazepine, and Lacosamide as adjunctive analgesics to opioids. *Int J Pharm Pract.* 2021; 51(1): 22-26. <https://doi.org/10.1002/jppr.1710>.

40. Lang A, Reinert JP, **Veronin M**. Dexmedetomidine as an adjunctive analgesic to opioids in the perioperative setting. *J Perioper Pract.* 28April2021. <https://doi.org/10.1177/1750458920971108>.

39. Lang A, **Veronin M**, Reinert JP. A comparison of tertiary drug resources' consistency regarding drug-drug interactions of adjunctive analgesics. *J Pharm Technol.* 2021; 37(1). <https://doi.org/10.1177/8755122520951331>.

38. **Veronin MA**, Lang A, Reinert JP. Remdesivir and Coronavirus Disease 2019 (COVID-19): Essential Questions and Answers for Pharmacists and Pharmacy Technicians. *J Pharm Tech.* Oct 2020. doi:[10.1177/8755122520967634](https://doi.org/10.1177/8755122520967634).

37. Garcia EJ, Reinert JP, **Veronin MA**. Safety and Efficacy Considerations of Gabapentin as Adjunctive Therapy to Opioids in the Perioperative Setting for Older Adults. *Sr Care Pharm.* 2020; 35(10):436-438. doi: <https://doi.org/10.4140/TCP.n.2020.436>.

36. **Veronin MA**, Schumaker RP, Dixit RR, Dhake P, Ogwo M. A Systematic Approach to Cleaning of Drug Name Records Data in the FAERS Database: A Case Report. *Intl J Big Data Mgmt.* 2020; 1(2). <https://doi.org/10.1504/IJBDM.2020.112404>.

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35. **Veronin MA**, Schumaker RP, Dixit RR. The Irony of MedWatch and the FAERS Database: An Assessment of Data Input Errors and Potential Consequences. *J Pharm Tech*. 2020; 36(4).  
<https://doi.org/10.1177/8755122520928495>.
34. **Veronin MA**, Schumaker RP, Dixit RR, Elath H. Opioids and frequency counts in the US Food and Drug Administration Adverse Event Reporting System (FAERS) database: a quantitative view of the epidemic. *Drug Healthc Patient Saf*. 2019 Aug 19;11:65-70. doi: 10.2147/DHPS.S214771.
33. **Veronin MA**, Schumaker RP. Opioid Adjunct Drug Therapy: Evaluating Effectiveness Using Text Analytics of Real-World Data. *Communications of the IIMA*, 17(1-4). Jan.-Dec. 2019, pp. COV2+.  
URL:<https://go.gale.com/ps/i.do?id=GALE%7CA629499430&sid=googleScholar&v=2.1&it=r&linkaccess=abs&issn=15435970&p=AONE&sw=w&userGroupName=anon%7Efe880b95>.
32. Elath H, Dixit RR, Schumaker RP, **Veronin MA**. Predicting Deadly Drug Combinations Through a Machine Learning Approach. The 22<sup>nd</sup> Pacific Asia Conference on Information systems (PACIS). June 26-30, 2018, Yokohama, Japan. <https://dblp.org/db/conf/pacis/pacis2018.html>.
31. Hagbani TA, **Veronin MA**, Nutan MT, Nazzal S. Can the surface color of pharmaceutical tablets be used as a unique product identifier? *J Drug Deliv Sci Technol*. 2017 Feb; 37, 141-146.
30. Stock EM, Copeland LA, Tsan JY, Zeber JE, **Veronin MA**, Thompson A. Association of Hospitalization with First-line Antidepressant Polypharmacy Among Veterans of Iraq and Afghanistan with PTSD: Examining the Influences of Methodological Approaches. *Military Medicine*. 05 Oct 2016; 181(10): 1248–1257.
29. West, C., **Veronin, MA.**, Kurz, T., Landry, K., Watzak, B., Quiram, B., & Graham, L. Tools to investigate how interprofessional education activities link to competencies. *Medical Education Online*, 2015 Jul; (20). ISSN 1087-2981.
28. **Veronin MA**. Enhancing Personal Health Record Adoption Through the Community Pharmacy Network: A Service Project. *Inov Pharm*. 2015; 6(4): 1-14.
27. **Veronin MA**, Nutan MT, Dodla UK. Quantification of active pharmaceutical ingredient and impurities in sildenafil citrate obtained from the Internet. *Ther Adv Drug Saf*. 2014 Oct; 5(5):180-189.
26. **Veronin MA**, Alkhateeb FM, Everett-Houser J. Patient-centered health care delivery uniting MTM, EHRs and patients: opportunities for pharmacists. *J Pharma Care Health Sys*. 2014; 1:3
25. Alkhateeb FM, Al-Rousan R, **Veronin MA**, Latif D, Dodd M. Availability and Perceived Value of Bachelor of Sciences in Pharmaceutical Sciences Programs (BSPS) in the United States. *Pharmacy*. 2014; 2(1), 1-16.
24. **Veronin MA**, Clancy K. Attrition of Canadian Internet Pharmacy Web sites: What are the Implications? *Drug Healthc Patient Saf*. 2013;5 171–179.
23. **Veronin MA**, Colson K, Roffman ME, Roman MW. Full circle-old drugs prove more beneficial than newer agents for schizophrenia: a case report. *Issues Ment Health Nurs*. 2012 Nov; 33(11):797-800.
22. **Veronin MA**, Daniels L, Demps E. Pharmacy cases in Second Life: an elective course. *Advances in Medical Education and Practice*. 2012 Oct (3): 105 – 112.
21. **Veronin MA**. Should we have concerns with generic versus brand antimicrobial drugs? A review of issues. *Journal of Pharmaceutical Health Services Research*, 2011 Sept; 2(3) 135-150.
20. **Veronin MA**. Packaging and labeling of pharmaceutical products obtained from the internet. *J Med Internet Res*. 2011 Feb 15;13(1):e22

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19. **Veronin MA**. To the Editor: van Mil F Author's reply. *Ann. Pharmacother.* 2008 Jul/Aug; 42: 1147. Published online, 24 Jun 2008, [www.theannals.com](http://www.theannals.com).
18. Clauson KA, **Veronin MA**, Khanfar NM, Lou JQ. Open-access publishing for pharmacy- focused journals. *Am J Health Syst Pharm.* 2008 Aug 15;65(16):1539-44.
17. **Veronin MA**, Nguyen NT. Comparison of simvastatin tablets from the US and international markets obtained via the Internet. *Ann Pharmacother.* 2008 May;42(5):613-20. Epub 2008 Apr 15.
16. **Veronin MA**, Clauson KA. Case Report. Internet pharmacy drugs delay treatment for congestive heart failure. *Journal of the American Pharmacists Association.* Jul/Aug 2007; 47(4): 436.
15. **Veronin MA**. Canadian Internet pharmacies: Price, policy, and perspective. *Research in Social & Administrative Pharmacy.* 2007 Jun; 3(2): 236-248.
14. **Veronin MA**, Lee E, Lewis EN. "Insight" into drug quality: Comparison of simvastatin tablets from the U.S. and Canada obtained via the internet. *Ann Pharmacother.* 2007 Jul; 41(7), 1111-5. Epub 2007 Jun 26.
13. **Veronin MA**. Health Care Informatics: A Skills-Based Resource. Book review. *Am J Pharm Educ.* Dec 15, 2007; 71(6): 126.
12. **Veronin MA**. One step forward, two steps back: The World Wide Web as an Information Resource. *Pharm Educ. Int J of Pharmaceutical. Educ.* 2005 Sept/Dec; 5(3/4): 209-214.
11. **Veronin MA**. Medication Access Through the Internet: Legal and Safety Considerations for Pharmacists. *Hosp Pharm.* 2005 Apr; 40 (4): 331-335.
10. **Veronin MA**, Youan BC. Magic Bullet gone astray: medications and the Internet. *Science.* 2004 23 Jul; 305: 481.
9. **Veronin MA**, Youan BC. Supporting Online Material. Research Methodology. Magic Bullet gone astray: medications and the Internet. *Science.* 2004 23 Jul; 305: 481. [www.sciencemag.org/cgi/content/full/305/5683/481/DC1](http://www.sciencemag.org/cgi/content/full/305/5683/481/DC1).
8. Seifert CF, **Veronin MA**, Kretschmer TD, McBeath DB, Stanford SJ, Turner D, Ontai SC. Training of a telepharmacist: addressing the needs of rural West Texas. *Am J Pharm Educ.* 2004; 68 (3) Art 60.
7. **Veronin MA**. The availability of addictive drugs from the Internet. *Panhandle Health.* 2004; 14 (3): 15-16.
6. **Veronin MA**. URL 404 File Not Found: dealing with the transient nature of the Web. *J Audiov Media Med.* 2003; 26 (4): 153-155.
5. **Veronin MA**. Internet Pharmacies: Prescription for health or harm? *Panhandle Health.* 2003; 14 (1): 41-42.
4. **Veronin MA**. Where are they now? A case study of health-related Web site attrition. *J Med Internet Res.* 2002 Apr-Nov; 4(2): e10. <http://www.jmir.org/2002/2/e10/index.htm>.
3. **Veronin MA**, Patry R. Instructional objectives: what they are, what they aren't. *Pharm Educ. Int J of Pharmaceutical. Educ.* 2002 May; (1), 207-213.
2. **Veronin MA**, Patry R. Evidence-based medicine: from conjecture to quality clinical practice. *Tex Soc Health Syst Pharm J.* 2001 Oct/Dec; 106-111.
1. **Veronin MA**, Ramirez G. Validity of health claims on the World Wide Web: a systematic survey of the herbal remedy Opuntia. *Am J Health Promot.* 2000 Sept/Oct; 15 (1): 21-28.

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#### **PUBLICATIONS IN PREPARATION**

Vega L, Conneen W, **Veronin M**, Schumaker R. A Neural Network Approach to Predict Opioid Misuse among Previously Hospitalized Patients using Electronic Health Records. *PLOS One*. In review, May 10, 2024.

**Veronin MA**. A Framework for a New Paradigm of Opioid Drug Tapering Using Adjunct Drugs. Commentary. *Substance Abuse and Rehabilitation*. Manuscript ID 468259. In review, May 10, 2024.

#### **PUBLICATIONS (Non-peer-reviewed)**

**Veronin, MA**. How to Save Money on Your Prescriptions. Money Saving Ideas. New York: NY, National Research Bureau, Inc., 1990 February/March; 35-36.

#### **Selected Reference Citations in Major Peer-reviewed Journals**

Youan BC. Chronopharmaceutics: gimmick or clinically relevant approach to drug delivery? *J Control Release*. 2004; 98: 337-353. (Acknowledgement).

Editors, The Medical Letter™. Tablet splitting, Two is not Always Better Than One. *The Medical Letter™ On Drugs and Therapeutics*. 2004 Nov 8; 46 (issue 1195): 89-91.

Wren J. 404 not found: the stability and persistence of URLs published in MEDLINE. *Bioinformatics*. 2004; 20 (5): 668-672.

Eysenbach G, Powell J, Kuss O, Eun-Ryoung S. Empirical studies assessing the quality of health information for consumers on the World Wide Web. *JAMA*. 2002; 287 (20): 2691-2700.

Dellavalle R, Hester E, Helig L, et al. Going, going, gone: lost Internet references. *Science*. 2003 Oct 31; 302: 787-788.

#### **PUBLISHED ABSTRACTS (Peer-reviewed)**

Schumaker RP, **Veronin MA**, Rohm T, Dixit RR, Aljawarneh S, Lara JA. "An Analysis of Covid-19 Vaccine Allergic Reactions." 32nd Annual Conference of the International Information Management Association (IIMA-2021). Oct 18-20 2021, Utrecht, The Netherlands. Available at: <https://youtu.be/MaT5EdlUK7g>.

**Veronin MA**. Opioid Adjunct Drug Therapy: Evaluating Effectiveness Using Text Analytics of Real- World Data. The 30th Annual Conference of the International Information Management Association (IIMA). September 23-25 2019. Iona College, New Rochelle, New York, USA.

**Veronin MA**. Irony of the FAERS Database: An Analysis of Data Input Errors and Potential Consequences. The 29<sup>th</sup> Annual Conference of the International Information Management Association (IIMA) and the 5th Annual Conference of the International Conference on Information Technology and Economic Development (ICITED), October 8-10, 2018, Houston, TX. <http://iima.org/wp/29th-conference-8-10-oct-2018-houston-texas-usa>. <http://iima.org/wp/wp-content/uploads/2019/02/IIMA-ICITED2018-AbstractBook-Final-Feb-10-2019.pdf>.

Dixit RR, Schumaker RP, **Veronin MA**. A Decision Tree Analysis of Opioid and Prescription Drug Interactions Leading to Death Using the FAERS Database. The 29<sup>th</sup> Annual Conference of the International Information Management Association (IIMA) and the 5th Annual Conference of the International Conference on Information Technology and Economic Development (ICITED), October 8-10, 2018, Houston, TX. <http://iima.org/wp/29th-conference-8-10-oct-2018-houston-texas-usa>. No: 61.

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Schumaker RP, **Veronin MA**, Dixit R, Dhake P, Mason D. Calculating a Severity Score of an Adverse Drug Event Using Machine Learning on the FAERS Database. International Information Management Association IIMA 2017, 28<sup>th</sup> Annual conference on Information Management. 11-13 Sept 2017, University of West Scotland, Paisley, Scotland, UK. <http://iima.org/wp/wp-content/uploads/2017/04/Proceedings-IIMA-ICITED-2017.pdf>.

Al Hagbani T, Nutan MT, **Veronin MA**, Nazzal S. The utility of colorimetry as a quality control tool for the identification of pharmaceutical tablets. 32<sup>nd</sup> Southern Biomedical Engineering Conference (SBEC), Shreveport, LA. 13 Mar 2016.

West C, **Veronin MA**, Landry K, Watzak B, Kurz T, Graham L. Assessing the Occurrence of Team and Interprofessional Communication in Two IPE Activities. American Academy on Communication in Healthcare (AACH) 2014 AACH Research and Teaching Forum. October 17-19, 2014. Orlando FL

**Veronin MA**. Quality of Generic Viagra® (sildenafil citrate) on the Internet: What are the Health Risks? 2nd International Conference and Exhibition on Pharmacovigilance & Clinical Trials. San Antonio, TX, November 18-19, 2013. <http://www.omicsgroup.com/conferences/pharmacovigilance-clinical-trials-2013/>.

**Veronin MA**, Daniels L, Demps E. Pharmacy Case Studies in Second Life: An Elective Course. AACP Annual Meeting, San Antonio, Texas, July 9-13, 2011. <https://issuu.com/aacp/docs/am11program/1>.

**Veronin MA**. Quality Assessment of Statins Obtained from the Internet. MEDNET 2006, World Congress on Internet in Medicine, Toronto, Canada, October 13-20, 2006. <http://www.mednetcongress.org>.

**Veronin MA**, Nelson A, Patry R, King P, Rogers G. Advances in e-learning: Development of a multi-campus electronic course delivery system. AACP Annual Meeting, Cincinnati, Ohio, July 9-13, 2005. Available at *Am J Pharm Educ* Web site: <http://www.ajpe.org>.

**Veronin MA**, Youan BC. Near-infrared chemical imaging of simvastatin-containing tablets obtained through the Internet. *AAPS Pharm Sci Abstr*. 2004 Oct; 6(S1).

Seifert CF, **Veronin MA**, Patry RA, et. al. Telepharmacy from classroom to practice: a pilot study. *Pharmacother Abstr*. 2003; 23 (10): 1336.

**Veronin MA**, Patry RA. To Tell The Truth: A Validation Method for Health Claims on the World Wide Web. *MLA National Conference Abstracts*, May 19, 2002.

### BOOK CHAPTER

**Veronin MA**. Opioids and frequency counts in the US Food and Drug Administration adverse event reporting system (FAERS) database. In: *Current Aspects in Pharmaceutical Research and Development* Vol.8. BP international; 2022. URL: <https://stm.bookpi.org/CAPRD-V8/article/view/5645>.

### PATENT

Schumaker RP, **Veronin MA**, Dixit RR. U.S. Title: Pharmacovigilance System to Predict Drug Reaction Severity. The University of Texas at Tyler Provisional Application No. 62/989,413 (2692.0004). Approved for use through 11/30/2020. U.S. Patent and Trademark Office, U.S. Department of Commerce.

### COPYRIGHT

Ellsworth, Allyson; Bui, Tho-dinh; **Veronin, Michael A.** (applicants). Title: Opioid Drug Dosing Reference Guide. U.S. Copyright Office. Case: 1-11081187911. May 20, 2022.

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## PRESENTATIONS

### Poster Presentations at Local/Regional/National Conferences

Ellsworth A, Bui TD, Marsh L, **Veronin MA**. A Comparison of Pain Management Resources Among Tertiary Databases. The University of Texas at Tyler 7th Annual Student Research Lyceum April 22, 2022.

Foote D, Gray K, Gonzalez J, Abernathy C, **Veronin MA**. "Barriers to Acceptance of the COVID-19 Vaccine. Poster Presentation. The University of Texas at Tyler 6th Annual Student Research Lyceum, April 16, 2021.

Lang A, Garcia E, Ponce F, Shoair O, Reinert J, **Veronin MA**. Adjunct Therapy in Opioid Pain Management: A Scoping Review. Fisch College of Pharmacy. Poster Presentation. The University of Texas at Tyler 5th Annual Lyceum Student Research Showcase, April 17, 2020.

Boyett MC, Schumaker RP, Veronin MA. Effects of Adjuncts on Opioids. UT Tyler Data Analytics Lab. Poster Presentation. The University of Texas at Tyler 5th Annual Lyceum Student Research Showcase, April 17, 2020.

Lang A, Tronzon C, **Veronin MA**. Evidence for Effectiveness of Opioid Adjunct Drug Therapy: A Review of the Literature. Fisch College of Pharmacy. Poster Presentation. The University of Texas at Tyler 4<sup>th</sup> Annual Lyceum Student Research Showcase, April 19, 2019.

Ogwo M, Schumaker RP, Dixit RR, **Veronin MA**. Elath H. Deaths Associated with Opioids Reported in the FAERS Database. Fisch College of Pharmacy. Poster Presentation. The University of Texas at Tyler 3rd Annual Lyceum Student Research Showcase, April 26, 2018.

Dhake P, Schumaker RP, Dixit RR, **Veronin MA**. Prescription Drug Interactions Leading to Death Using the FAERS Database. UT Tyler Data Analytics Lab. Poster Presentation. The University of Texas at Tyler 3rd Annual Lyceum Student Research Showcase, April 26, 2018.

Mason D, Schumaker R, **Veronin, M**, Dixit R, Dhake P, Elath H, Scoggins A. Standardizing the FDA Adverse Reporting System (FAERS) Database. UT Tyler Data Analytics Lab. Poster Presentation. The University of Texas at Tyler 3rd Annual Lyceum Student Research Showcase, April 26, 2018.

Dixit, R., Schumaker, R., **Veronin, M**. and Dhake, P. A Decision Tree Analysis of Opioid and Prescription Drug Interactions Leading to Death Using the FAERS Database. Third Annual Research Lyceum at the University of Texas at Tyler, April 2018. Tyler, TX.

Mason D, Schumaker R, **Veronin, M**, Dixit R, Dhake P, Elath H, Scoggins A. Standardizing the FDA Adverse Reporting System (FAERS) Database. Poster Presentation. 52nd National Collegiate Honors Council Annual Conference (NCHC-2017). Atlanta, GA. November 2017.

**Veronin MA**, Daniels L, Demps E. Pharmacy Case Studies in Second Life: An Elective Course. American Association of Colleges of Pharmacy (AACP) Annual Meeting, San Antonio, Texas, July 9-13, 2011.

Kolson K, **Veronin MA**. Challenges to Adherence with Antipsychotic Drug Therapy: A Case Report. Poster Presentation. National Pharmaceutical Association 62<sup>nd</sup> Annual Convention, "Celebrating Excellence: Continually Raising the Bar." Chicago, IL, July 17-20, 2009.

**Veronin MA**. Where Are They Now? Issues in Health-related Web Site Attrition. American Medical Writers Association 66<sup>th</sup> Annual Conference, Albuquerque, NM, October 26-28, 2006.

**Veronin MA**. Health Information on the World Wide Web: Can We Determine Validity? American Medical Writers Association 66<sup>th</sup> Annual Conference, Albuquerque, NM, October 26-28, 2006.

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**Veronin MA**, Nelson A, Patry R, King P, Rogers G. Advances in e-learning: Development of a multi-campus electronic course delivery system. American Association of Colleges of Pharmacy (AACP) Annual Meeting, Cincinnati, Ohio, July 9-13, 2005.

**Veronin MA**, Youan BC. Focus on Patient Safety: Spectroscopic Imaging of Simvastatin Tablets Obtained from the Internet. Texas Society of Health-System Pharmacists, 57<sup>th</sup> Annual Seminar. Austin, Texas. April 7-11, 2005.

Patry RA, MacLaughlin E, Young R, **Veronin MA**, Nixon-Lewis B, Zoller D. Implementation and Analysis of a Pharmacy School-based Drug Plan for Low Income Patients. Texas Society of Health-systems Pharmacists 57<sup>th</sup> Annual Seminar, April 7-11, 2005. *First Place, Pharmacy Administration category.*

**Veronin MA**, Youan BC. Near-infrared Spectroscopic Imaging of Simvastatin Tablets Obtained from the Internet. American Association of Pharmaceutical Scientists Annual Meeting, Baltimore, MD. November 7-11, 2004.

**Veronin MA**, Youan BC. Near-infrared Spectroscopic Imaging of Simvastatin Tablets Obtained from the Internet. TTUHSC SOP 3<sup>rd</sup> Annual Research Day; July 29, 2004.

Patry RA, MacLaughlin E, Young R, **Veronin MA**, Nixon-Lewis B, Zoller D. Modeling the Impact of Medication Management and CPOE on Adherence to Therapeutic Guidelines-Preliminary Report. Texas Society of Health-systems Pharmacists 56<sup>th</sup> Annual Seminar, April 16-19, 2004.

Collins GC, Patry RA, **Veronin MA**, Anderson HG. Development of a University-Based Health Informatics and Pharmacy Systems Center. American Society of Health-Systems Pharmacists Midyear Conference, December 7-11, 2003.

**Veronin MA**, Scott JC. Internet Pharmacies: Prescription for Health or Harm? American Society of Health-Systems Pharmacists Midyear Conference, December 7-11, 2003.

Patry RA, Collins GC, **Veronin MA**, Anderson HG. Re-Engineering Pharmacy Services for Community Health Centers, Texas Society of Health-Systems Pharmacists Conference, April 4-7, 2003.

Easterday L, Patry R, Schnatz R, **Veronin MA**, Jaramillo J. Virtual Pharmacy: Implementing Automation in a School of Pharmacy Dispensing. Texas Society of Health-Systems Pharmacists Conference, April 4-7, 2003.

Seifert CF, **Veronin MA**, Patry RA, McBeath DB, Phillips JC, Ontai SC, Kretschmer TD, Patterson PJ. Telepharmacy from Classroom to Practice; A Pilot Study. Texas Rural Health Association/Texas Rural Development Council Regional Conference, September 17-19, 2002.

**Veronin MA**, Patry RA. To Tell The Truth: A Validation Method for Health Claims on the World Wide Web. Medical Library Association National Conference, May 19, 2002.

### Oral Presentations at Regional/National Conferences (Invited)

Schumaker RP, **Veronin MA**. "An Analysis of Covid-19 Vaccine Allergic Reactions." 32nd Annual Conference of the International Information Management Association (IIMA-2021). Oct 18-20 2021, Utrecht, The Netherlands. Available for viewing at: <https://youtu.be/MaT5EdiUK7g>.

**Veronin MA**. Opioid Adjunct Drug Therapy: Evaluating Effectiveness Using Text Analytics of Real-World Data. The 30th Annual Conference of the International Information Management Association (IIMA). September 23-25 2019. Iona College, New Rochelle, New York, USA. Session available for viewing at: <https://youtu.be/ODdu77PQOVg>.

**Veronin MA**. Irony of the FAERS Database: An Analysis of Data Input Errors and Potential Consequences.

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The 29<sup>th</sup> Annual Conference of the International Information Management Association (IIMA) and the 5th Annual Conference of the International Conference on Information Technology and Economic Development (ICITED), October 8-10, 2018, Houston, TX. <http://iima.org/wp/29th-conference-8-10-oct-2018-houston-texas-usa>.

Dixit, R., Schumaker, R. and **Veronin, M.**, (2018). A Decision Tree Analysis of Opioid and Prescription Drug Interactions Leading to Death Using the FAERS Database. 29th Annual Conference of the International Information Management Association (IIMA-2018). October 2018. Houston, TX.

Elath, H., Dixit, R., Schumaker, R. and **Veronin, M.**, (2018). Predicting Deadly Drug Combinations through a Machine Learning Approach. Pacific Asia Conference on Information Systems (PACIS-2018). June 2018. Yokohama, Japan.

Schumaker, R., **Veronin, M.**, Dixit, R., Dhake, P. and Mason, D. Calculating a Severity Score of an Adverse Drug Event Using Machine Learning on the FAERS Database. 28th Annual Conference of the International Information Management Association (IIMA-2017). September 2017. Glasgow, Scotland.

West C, **Veronin MA**. Tools to investigate how interprofessional education activities link to competencies. Southern Group on Educational Affairs (SGEA) Regional Conference, Charlotte NC, April 24-26, 2015. <https://www.aamc.org/members/gea/regions/sgea/meetings/>

**Veronin MA**. Quality of Generic Viagra® (sildenafil citrate) on the Internet: What are the Health Risks? 2<sup>nd</sup> International Conference and Exhibition on Pharmacovigilance & Clinical Trials. San Antonio, TX, November 18-19, 2013. <http://www.omicsgroup.com/conferences/pharmacovigilance-clinical-trials-2013/>.

National Pharmaceutical Association 64<sup>th</sup> Annual Conference, Atlanta, GA. Continuing Education Presentation: "The Future is Now: Update on Electronic Health Records (EHRs) and e-Prescribing. July 23, 2011 (By invitation).

National Pharmaceutical Association 63<sup>rd</sup> Annual Conference, Seattle, WA. Continuing Education Presentation: "Electronic Health Records (EHRs) and e-Prescribing: Impact of the Healthcare Reform Act." July 24, 2010 (By invitation).

Texas Pharmacy Association 2009 Southwest Rxpert Conference and Expo; San Antonio, TX, July 22-24, 2009. Title: "Electronic Health Records (EHRs) and e-prescribing: Future Directions for Pharmacists." (By invitation).

National Pharmaceutical Association 62<sup>nd</sup> Annual Convention, Chicago, IL, July 17-20, 2009. <http://www.npha.net>. Title: "Electronic Health Records (EHRs) and e-prescribing: Future Directions for Pharmacists." (By invitation).

"Drug Importation and the Internet: Research Perspectives and Issues of Drug Quality." Presented at Texas A&M University Health Science Center Irma Lerma Rangel College of Pharmacy Research Seminar Series, Department of Pharmaceutical Sciences. May 28, 2008

"Online Pharmacies" Panel discussion coordinator and moderator. (By invitation). Presented at MEDNET 2006, World Congress on Internet in Medicine, Toronto, Canada, October 13-20, 2006. URL: <http://www.mednetcongress.org>.

"Quality Assessment of Statins Obtained from the Internet." (By invitation) Presented at MEDNET 2006, World Congress on Internet in Medicine, Toronto, Canada, October 13-20, 2006. URL: <http://www.mednetcongress.org>.

"Drug Importation and the Internet: A Case Report on the Leading Statin, Zocor®." (By invitation) Presented at Texas Tech University HSC School of Pharmacy 5<sup>th</sup> Annual Research Days. August 4, 2006.

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"URL 404 File Not Found: Internet Reference Disappearance." (By invitation) Presented at Texas Tech University HSC School of Pharmacy 4<sup>th</sup> Annual Research Days. July 29, 2005.

"Magic Bullet Gone Astray: Medications and the Internet". (By invitation) Presented at Midwestern University College Pharmacy, Glendale, Arizona, to faculty and students, March 16, 2005.

"Overview of Health Informatics." (By invitation) Presented at the Texas Society of Health-System Pharmacists 56<sup>th</sup> Annual Conference, Houston, TX. April 16-19, 2004.

"Internet Pharmacies: Are They a Public Health Risk?" (By invitation) Presented at the Texas Society of Health-System Pharmacists 56<sup>th</sup> Annual Conference. Houston, TX. April 16-19, 2004.

"Illegal Internet Pharmacies." Texas Tech University Health Sciences Center School of Pharmacy Research Seminar Series. Department of Pharmaceutical Sciences. September 8, 2003

"Where Are They Now? Issues in Web Site Attrition." Health Sciences Communications Association (HeSCA) 28<sup>th</sup> Annual International Conference, Bethlehem, PA. June 20, 2003.

"Telepharmacy from Classroom to Practice." Seifert CF and Veronin MA, shared presentation. Texas Rural Health Association/Texas Rural Development Council Regional Conference. September 18, 2002.

"The 1.4 Million Dollar Man: A Case Study in Health Informatics." Presented to faculty and students, Texas Tech University School of Pharmacy, Department of Pharmacy Practice, Amarillo, Texas. April, 29, 2002.

"Medical Informatics: Technology and Healthcare." Presented to faculty and students, Texas Tech University School of Pharmacy, Department of Pharmaceutical Sciences, Amarillo, Texas. April 15, 2002.

"Medical Informatics." Presented to faculty and students, University of Wyoming School of Pharmacy, Laramie, Wyoming. April 12, 2002.

"Education in the Information Age: The WebCT Project." Presented to the Dean's Advisory Council, Texas Tech University Health Sciences Center School of Pharmacy, Amarillo, Texas. February 28, 2002.

"The Quality of Health Information on the World Wide Web." Presented to faculty and students, Creighton University School of Pharmacy, Omaha, Nebraska. November 16, 2001.

### REVIEWS (Invited)

Introduction to Health Care Delivery. A Primer for Pharmacists. Robert L. McCarthy, Kenneth W. Schafermeyer, Kimberly S. Plake. 2012. Jones & Bartlett Learning: Sudbury, MA. (2013).

World Health Organization Global Observatory for eHealth series - Volume 4, Safety and security on the Internet: challenges and advances in Member States. 2011. URL: <https://gateway.euro.who.int/en/global-observatory-for-ehealth-vol-4-safety-and-security-on-the-internet-challenges-and-advances-in-member-states/>.

### Manuscript Peer Reviews for Journals (Since 2004)

- Science
- Currents in Pharmacy Teaching and Learning
- Journal of Pharmaceutical Health Services Research
- The Medical Letter
- Research in Social and Administrative Pharmacy
- Journal of Medical Internet Research
- Annals of Pharmacotherapy

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- Journal of the American Pharmacists Association
- Laws
- Journal of Pharmacy Technology
- Drug Safety
- Drug, Healthcare and Patient Safety

### RESEARCH GRANT PROPOSALS (Funded)

**Veronin MA** (PI). Project title: "Opioid Adjunct Drug Therapy: Evaluating Effectiveness Using Text Analytics of Real-World Data." The University of Texas at Tyler Office of Research and Scholarship. Student Research Grant program. Sept 1, 2018 – July 30, 2019. \$3,000.

Schumaker RP (PI), **Veronin MA** (Co-PI), Hermanns M (Co-PI). Project title: "Tyler Cardiac: A pharmacovigilance tool to improve prescription drug safety." The University of Texas at Tyler Office of Research and Scholarship. Interdisciplinary Grant program. Sept 1, 2018 – July 30, 2019. \$17,000.

**Veronin MA** (PI), Schumaker RP (Co-PI). "A Machine Learning Approach to Analyze Cardiac-related Adverse Events in the FAERS Database." University of Texas at Tyler Ben and Maytee Fisch College of Pharmacy Pilot Research and Scholarship Grant. April 01, 2017 - March 31, 2018. \$10,011.

Lori Graham, Courtney West (Principal Investigators), **MA Veronin** (Co-Investigator). National Institutes of Health grant # 5R25HL108183-02. Project title: "Baylor College of Medicine's Relationship Centered Transformation of Curriculum in partnership with Texas A&M Health Science Center's Communities of Transformative Learning." \$200,000 per year to HSC for 5 years. Percent Effort: 4%, June 2011 to August 2015.

**Veronin MA** (PI); Youan BC, Patry RA, (Co-Investigators). "Quality Assessment of Statins Obtained from the Internet." American Heart Association, Texas Affiliate. Austin, TX. Award #0565153Y, May 17, 2005. No-cost extension to July 2009. \$124,000.

Seifert CF (PI); **Veronin MA**, Patry RA, McBeath DB, Phillips JC, Ontai SC, (Co- Investigators.) "Telepharmacy from Classroom to Practice: A Pilot Study." Subcontract from USDA DLT grant TX 731-A17&A19. \$40,000.

### STUDENTS MENTORED

Fall/Spring 2021-2022: Allyson Ellsworth, Tho-Dinh Bui, PharmD Candidates, Ben and Maytee Fisch College of Pharmacy. Project: "Opioid Drug Dosing Reference Guide."

Fall/Spring 2018-2020: Andrew Lang, PharmD Candidate, Ben and Maytee Fisch College of Pharmacy.

Projects: "Evidence of Effectiveness for Opioid Adjunct Drug Therapy: A Knowledge Synthesis."

"Remdesivir and Coronavirus Disease 2019 (COVID-19): Essential Questions and Answers for Pharmacists and Technicians."

"A comparison of tertiary drug resources' consistency regarding drug-drug interactions of adjunctive analgesics."

"Dexmedetomidine as an adjunctive analgesic to opioids in the perioperative setting."

Fall/Spring Andrew 2019-2020: Edgar Garcia, PharmD Candidate Ben and Maytee Fisch College of Pharmacy.

Project: "Safety and Efficacy Considerations of Gabapentin as Adjunctive Therapy to Opioids in the Perioperative Setting for Older Adults."

Fall/Spring 2019/2020: Tapas Kar, 4<sup>th</sup> year student in Computer Science, UT Tyler Soules College of Business, Department of Computer Science.

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Project: "Opioid Adjunct Drug Therapy: Evaluating Effectiveness Using Text Analytics of Real-World Data."

Fall/Spring 2017-2019: Morgan Ogwo, PharmD Candidate, Ben and Maytee Fisch College of Pharmacy.

Projects: "A Systematic Approach to Cleaning of Drug Name Records Data in the FAERS Database."

"Irony of the FAERS Database: An Analysis of Data Input Errors and Potential Consequences."

Fall/Spring 2017-2019: Rohit R. Dixit, M.S. Candidate, Computer Science, Soules College of Business, Department of Computer Science.

Project: "A Systematic Approach to Cleaning of Drug Name Records Data in the FAERS Database."

Fall/Spring 2018-2019: Harshini Elath, M.S. Candidate, Computer Science, Soules College of Business, Department of Computer Science.

Project: "Opioids and frequency counts in the US Food and Drug Administration Adverse Event Reporting System (FAERS) database: a quantitative view of the epidemic."

09/10-05/12: Chair, Master of Science degree thesis committee for Uday Dodla, chemistry student at Texas A&M University-Kingsville. (Degree conferred, May 2012).

2004-2006: Doctoral dissertation advisory committee member for 3 Ph.D. candidates in Pharmaceutical Sciences at Texas Tech University HSC School of Pharmacy.

## EDUCATION – TEACHING EXPERIENCE

### Coursework on Teaching

- U.S. Health Care Systems
- Drug Information/Drug Literature Evaluation
- Sterile Products & Intravenous Admixtures
- Social Determinants of Health
- Research Methods and Biostatistics
- Social-Behavioral Aspects of Patient Care
- Pharmaceutical Calculations
- Clinical Communications
- Pharmacy Law and Ethics
- Health Informatics
- Pharmacoeconomics
- *Proficient in Team-Based Learning methodology*

## COMMITTEES AND SERVICE:

The University of Texas at Tyler Ben and Maytee Fisch College of Pharmacy

04/24-Present: University Governance Committee, Artificial Intelligence (AI) Planning Committee

08/23-Present: Professional and Academic Standards Committee (PASC) member.

09/17-Present: Accreditation Council for Pharmacy Education (ACPE) Self-study Sub-committee.

09/15-Present: Co-Chair, Promotion and Tenure Committee.

10/21-08/23: University Governance Committee, Faculty Affairs Committee.

10/20-01/22: University Governance Committee, Graduate Council committee member.

10/15-10/20: University Governance Committee, Handbook of Operating Procedures (HOP) Committee.

08/20-08-23: Curriculum Committee, member; 10/21-08/22, Vice-chair; 09/22-08/23, Chair.

Fall 2019: Dean's Fellowship Program, faculty representative for research and information technology.

*Suspended in 2020 due to COVID-19. Scheduled for fall 2021.*

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09/15-08/18: University Governance Committee, Faculty Senate.

09/17-08/18: Chair, Assessment Committee.

09/17-08/18: Chair, Faculty Search Committee, Dept. of Pharmaceutical Sciences.

09/17-08/18: Research and Scholarship Committee, member.

09/15-08/17: Admissions Committee, member.

09/15-08/17: Faculty Council, member.

09/15-08/16, 08/19-06-20: Objective Structured Clinical Examination (OSCE) Oversight Work Group committee member.

### Texas A&M University Health Science Center Rangel College of Pharmacy

09/11-08/15: Chair, Outcomes Assessment Committee.

09/14-08/15: Co-Chair, Accreditation Council for Pharmacy Education (ACPE) Self-study Sub-committee.

09/14-08/15: Awards, Honors and Scholarships (AHS) Committee.

09/11-12/14: Chair, Quality Enhancement Plan (QEP) Committee for SACS Accreditation.

09/09-08/15: Kappa Psi Pharmaceutical Fraternity, Faculty Advisor for Epsilon Epsilon, College of Pharmacy Chapter for 5 student officers and 120+ students.

08/11-08/14: College of Pharmacy representative, Texas A&M Health Science Center Appointment, Promotion, and Tenure (APT) Committee.

09/12-04/13: Chair, Search Committee for Chair of the Department of Pharmaceutical Sciences.

09/07-08/11: Chair, Curricular Affairs Committee.

### **PROFESSIONAL MEMBERSHIPS**

American Society of Health-System Pharmacists, Section of Pharmacy Educators, Pharmacy Informatics.  
08/01/2023-12/31/2024 Member ID: 07798074.

American Association of Colleges of Pharmacy, since March 2024, <https://my.aacp.org/>. Member ID 66816.

### **HONORS AND AWARDS**

The University of Texas at Tyler 5th Annual Student Research Lyceum April 17, 2020. Best Mentor award (nomination).

Ben and Maytee Fisch College of Pharmacy 2020 Teacher of the Year, Department of Pharmaceutical Sciences.

Ben and Maytee Fisch College of Pharmacy Teacher of the Year, Class of 2019.

August 31, 2015: Tenure awarded by the Board of Regents of the University of Texas System.

September 1, 2012: Tenure awarded by Texas A&M University Board of Regents.

2011 Kappa Psi Pharmaceutical Fraternity Outstanding Service Appreciation Award. Rangel College of Pharmacy, Epsilon Epsilon Chapter.

National Library of Medicine Bioinformatics education scholarship, Woods Hole, MA. Certificate of Achievement awarded September 2010.

Irma Lerma Rangel College of Pharmacy Teacher of the Year 2007/2008.

## Michael A. Veronin

Texas Tech University Health Sciences Center American Pharmacists Association Academy of Student Pharmacists Certificate of Appreciation, Recognizing Excellence Program, May 5, 2006.

President's Young Investigator Award for the Texas Tech University Health Sciences Center. Presented on November 11, 2005 by M. Roy Wilson, M.D., M.S., President for Texas Tech University Health Sciences Center.

American Medical Writers Association Frances Larson Memorial Award for Excellence in Medical Writing. Presented by the Pacific Southwest Chapter, June 2005.

### **COMMUNITY SERVICE**

Congenital Heart Information Network (CHIN) member, since 2002. National Chapter, Yardley, PA. URL: <http://www.tchin.org>. Facebook: <https://www.facebook.com/TCHIN.org/>.

### **REFERENCES**

Available on request