

# John B. Hertig, PharmD, MS, CPPS, FASHP, FFIP

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## PROFESSIONAL EXPERIENCE

**Associate Professor**, 10.18-present  
**Chair, Department of Pharmacy Practice**, 06.22-02.24  
**Vice-Chair, Department of Pharmacy Practice**, 06.19-05.22  
Butler University College of Pharmacy and Health Sciences  
Indianapolis, IN

**Co-Founder and Chief Operating Officer**, 04.16-present  
Penguin Innovations, Inc., Carmel, IN

**Associate Director**, 01.13-09.18  
**Medication Safety Project Manager**, 09.11-12.12  
Center for Medication Safety Advancement  
Purdue University College of Pharmacy, Indianapolis, IN

**Lean and Six Sigma Yellow Belt Trainer**, 09.11-09.17  
U.S. Department of Veterans Affairs Hospitals

**Director of Quality/Coordinator of Administrative Services**, 08.10-08.11  
Department of Pharmacy  
Duke University Hospital, Durham, NC

## EDUCATION/ TRAINING

**Emerging Leaders Program**, completed 06.17  
Harvard University, John F. Kennedy School of Government, Executive  
Education, Cambridge, MA

**Masters in Health-System Pharmacy Administration**, degree 06.10  
The Ohio State University College of Pharmacy, Columbus, OH

**Certificate of Residency Training**, completed 07.08-06.10  
PGY1/PGY2 Masters in Health-System Pharmacy Administration  
The Ohio State University Medical Center, Columbus, OH

**Doctor of Pharmacy**, degree 05.08  
Purdue University College of Pharmacy, West Lafayette, IN

**Bachelors of Science in Pharmaceutical Sciences**, degree 05.08  
Minors: Political Science, Chemistry  
Purdue University College of Pharmacy, West Lafayette, IN

**ACADEMIC  
APPOINTMENTS**

**Fellowship Director, 10.11-present**  
Pharmacy Fellowship Programs (US Food and Drug Administration; Eli Lilly and Company; Regeneron)  
Butler University, Indianapolis, IN

**Faculty Advisor 05.20-present**  
Industry Pharmacists Organization (IPhO) – Student Chapter  
Butler University, Indianapolis, IN

**Adjunct Assistant Clinical Professor 11.18-present**  
Department of Pharmacy Practice  
Purdue University College of Pharmacy

**Visiting Lecturer 05.14-06.20**  
College of Pharmacy, Division of Pharmacy Practice and Administration  
The Ohio State University, Columbus, OH

**Fellowship Director 10.11-10.18**  
Regulatory Medication Safety Fellowship (US Food and Drug Administration; Eli Lilly and Company; AbbVie Inc.)

**Assistant Clinical Professor (courtesy) 09.11-10.18**  
Department of Pharmacy Practice  
Purdue University College of Pharmacy

**TEACHING/  
PRECEPTING**

**BSHS/RX 499-SAFL: Healthcare Delivery in the United Kingdom (Faculty-led Study Abroad) Course Coordinator, 05.22-present**  
Butler University College of Pharmacy, Indianapolis, IN

**BSHS/RX 499: Learning From Failure: How Aviation Disasters Improve Patient Safety Course Coordinator and Lecturer, 08.21-present**  
Butler University College of Pharmacy, Indianapolis, IN

**RX 432: Entrepreneurship, Leadership, and Management Course Coordinator and Lecturer, 10.18-present**  
Butler University College of Pharmacy, Indianapolis, IN

**PHRM 490: Introduction to the Pharmaceutical Industry Course Coordinator, 01.14-12.18**  
Purdue University College of Pharmacy, West Lafayette, IN

**PHRM 869: Practice Management Course Coordinator and Lecturer, 01.12-09.18**  
Purdue University College of Pharmacy, West Lafayette, IN

**PHPR 490: Medication Errors and Safety Practices**  
**Course Co-Coordinator and Lecturer, 01.12-04.13**  
Purdue University College of Pharmacy, West Lafayette, IN

**PHRM 870: Health Policy Applications**  
**Lecturer, 09.14-09.18**  
Purdue University College of Pharmacy, West Lafayette, IN

**PHRM 868: Patient Safety and Informatics**  
**Lecturer, 09.14-09.18**  
Purdue University College of Pharmacy, West Lafayette, IN

**Teaching Enrichment Program**, completed 06.10  
The Ohio State University College of Pharmacy, Columbus, OH

**Pharmacy 786: Pharmacy Practice Management II**  
**Lecturer, 01.09-05.09**  
The Ohio State University College of Pharmacy, Columbus, OH

**Pharmacy 763: Introduction to the US Healthcare System**  
**Lecturer, 10.08**  
The Ohio State University College of Pharmacy, Columbus, OH

Experiential Teaching

**APPE and IPPE Preceptor, 09.11-09.18**  
Center for Medication Safety Advancement  
Purdue University College of Pharmacy, Indianapolis, IN

**PROFESSIONAL  
APPOINTMENTS**

**Associate Editor** 11.21-present  
Journal of Medicine Access

**Member** 06.21-present  
Drug Safety and Risk Management Advisory Committee  
The United States Food and Drug Administration, Washington, DC

**Faculty** 10.15-present  
Certified Professional in Patient Safety Review Course  
Institute for Healthcare Improvement, Boston, MA

**Board Member** 10.15-present  
Alliance for Safe Online Pharmacies - Global, Washington, DC

**Member** 07.14-present  
Latiolais Leadership Program Executive Committee  
The Ohio State University, Columbus, OH

**Editorial Advisory Board Member** 01.14-06.22  
The Joint Commission Journal on Quality and Patient Safety

**Consultant 11.15-12.19**

Drug Safety and Risk Management Advisory Committee  
The United States Food and Drug Administration, Washington, DC

**Technical Expert Panel Member 01.15-09.18**

Hospital Inpatient and Outpatient Process and Structural Measure  
Development and Maintenance (Hospital-MDM) project  
Centers for Medicare and Medicaid Services

**Founder and Advisor 01.14-06.16**

New Practitioners Taskforce  
Indiana Pharmacist Alliance, Indianapolis, IN

**Member 09.13-06.16**

Medication Reconciliation and Adherence Taskforce  
Indianapolis Patient Safety Coalition, Indianapolis, IN

**Member 06.13-06.16**

Hospital Bioterrorism Preparedness Planning Committee  
Indiana State Department of Health, Indianapolis, IN

**Member 09.11-06.14**

Indianapolis Medication Safety Committee  
Indianapolis Patient Safety Coalition, Indianapolis, IN

**Administrator 01.13-06.15**

Indiana Medication Safety Alliance  
Indianapolis, IN

**Secretary 09.11-12.13**

West Central Indiana Patient Safety Coalition  
Lafayette, IN

**Member 10.10-08.11**

Institutional Review Board  
Duke University Hospital, Durham, NC

**PLATFORM/INVITED  
PRESENTATIONS**

*International*

“Navigating the Perfect Storm: Keeping Patients Safe When Accessing  
Medicines Online.” University of Sydney Guest Speaker Seminar.  
Sydney, Australia. September 2023.

“FIP activities linked to the falsification of medical products.” CMED-PC  
Stakeholder Day. Brussels, Belgium (Virtual). May 2023.

“Navigating the Perfect Storm: Keeping Patients Safe When Accessing Medicines Online.” University College London School of Pharmacy Seminar (Virtual). April 2023.

“Implications in pharmaceutical practice of nanomedicines.” FIP-World Congress, Seville, Spain. September 2022.

“Strategies for improving medication safety in hospitals.” HISFARSI Meeting. Manado, Indonesia (Virtual). October 2022.

“Pharmacy student knowledge of online pharmacy use and the impact of education.” International Social Pharmacy Workshop. Basel, Switzerland. July 2022.

“IP protection and enforcement in the digital economy.” Trademark Infringement and Social Media Symposium. Newcastle, UK. June 2022.

“High-Risk but No Harm: USA Strategies for Using Human Factors Science to Improve Patient Safety.” 10<sup>th</sup> Pharmaceutical Care Conference – Ministry of Health, Muscat, Oman. December 2021.

“The Safety of Intravenous Drug Delivery Systems: Update on Issues Since the 2009 Consensus Development Conference.” 10<sup>th</sup> Pharmaceutical Care Conference – Ministry of Health, Muscat, Oman. December 2021.

“Global solutions to confront substandard and falsified COVID-19 vaccines.” Fight the Fakes Alliance Webinar. December 2021.

“COVID-19 Complications – What Should Pharmacists Know?” International Pharmaceutical Federation – Webinar. November 2021.

“Cost-benefit Analysis of Ready to Administer Formulations.” International Medication Safety Network Meeting. London, United Kingdom. November 2021.

“Navigating the Perfect Storm: Keeping Consumers Safe When Accessing Medication Online.” Schreiner Global Best Practices Webinar Series. October 2021.

“Online pharmacies and patient safety – in terms of self-care.” International Pharmaceutical Federation – Webinar. April 2021.

“Incorporating Artificial Intelligence and Robotics in the Future of Pharmacy Practice.” CCM Middle East – Webinar. April 2021.

“FIP: Supporting Safe Medication Delivery Internationally.” International Medication Safety Network Meeting, Rabat, Morocco. October 2019.

“Tackling the Challenges of Nanomedicines: Are We Ready? FIP-World Congress, Abu Dhabi, UAE. September 2019.

“Supporting Safe Medication Delivery Internationally.” ANVISA Remote Meeting, Brasilia, Brazil. August 2019.

“Eliminating Future Harm: Implementing Best Practices in Medication Safety.” King Fahad Medical City International Conference, Riyadh, Saudi Arabia. April 2019.

“Medication Reconciliation: Optimizing Medication Use Across the Continuum of Care.” King Fahad Medical City International Conference, Riyadh, Saudi Arabia. April 2019.

“Preventing the Perfect Storm: Keeping Consumers Safe When Buying Medication Online.” G2 Risk Summit, London, United Kingdom. February 2019.

“Research: From marketing authorisation to patient use and beyond.” FIP-World Congress, Glasgow, United Kingdom. September 2018.

“Contemporary Leadership Skills in Medication Safety Programs.” Keynote presentation, Universidad de Valparaiso, Valparaiso, Chile. April 2018.

“Strategies to Use Data to Improve Health and Safety - Workshop.” 9<sup>th</sup> Medication Safety Conference, Abu Dhabi, United Arab Emirates. November 2016.

“Integrating Simulation into Education: Using a Virtual Cleanroom to Improve Safety.” 9<sup>th</sup> Medication Safety Conference, Abu Dhabi, United Arab Emirates. November 2016.

“Development of a risk score for major bleeding associated with novel oral anticoagulants.” FIP-World Congress, Buenos Aires, Argentina. August 2016.

“Development and Assessment of a Medication Safety Measurement Program in a Long-Term Care Pharmacy.” X Jornadas Farmacéuticas del Hospital Dr. Gustavo Fricke: Desafíos y Tendencias en Gestión Farmacéutica, Vina del Mar, Chile. August 2016.

“Medication Errors and Community Practice.” X Jornadas Farmacéuticas del Hospital Dr. Gustavo Fricke: Desafíos y Tendencias en Gestión Farmacéutica, Vina del Mar, Chile. August 2016.

Seguridad en el uso de Medicamentos: La enfermedad que no vemos.  
“The Evolving Role of the Pharmacist in Healthcare Systems.”  
Valparaiso, Chile. April 2016.

“Implementing Best Practices in Medication Safety.” New Challenges in  
Pharmacy Meeting, Jeddah and Riyadh, Saudi Arabia. November 2014.

“Human Factors and Medication Error Prevention.” New Challenges in  
Pharmacy Meeting, Jeddah and Riyadh, Saudi Arabia. November 2014.

National

“Controlled Substances Online Landscape: Panel Discussion.” Online  
Controlled Substances Summit, United States Food and Drug  
Administration (Virtual). June 2023.

“Adding It All Up: Cost-effectiveness Considerations for Ready-to-  
Administer IV Push Products.” ASHP-MCM, Las Vegas, NV. December  
2022.

“Formulary Considerations: Nanomedicine Properties, Principles, and  
Progress.” AMCP National Meeting, Chicago, IL. March 2022.

“Wasted Efforts: Engaging Key Stakeholders to Optimize Health System  
Drug Disposal and Prevent Diversion.” ASHP-Virtual. December 2021.

“HIV Prevention and Treatment – The Threats of Illegal Online Drug  
Sellers to Public Health and Patient Safety.” Alliance for Safe Online  
Pharmacies Foundation – Webinar. June 2021.

“The Future of Drug Importation – Enhancing Networks to Safeguard  
Our Drug Supply Chain.” National Association of Boards of Pharmacy  
Annual Meeting – Virtual. May 2021.

“COVID-19 Vaccines: How to Protect the Most In-Demand Product in  
Recent History from Counterfeit or Other Criminal Activity.” Michigan  
State University Center for Anti-Counterfeiting and Product Protection  
Brand New World Conference - Virtual. December 2020.

“Counterfeits Online: The Pharma Experience.” Michigan State  
University Center for Anti-Counterfeiting and Product Protection Annual  
Conference, East Lansing, MI. July 2020.

“The Safety of Intravenous Drug Delivery Systems: Update on Issues  
Since the 2009 Consensus Development Conference.” ASHP-MCM, Las  
Vegas, NV. December 2019.

“Best Practices in Drug Distribution Panel Discussion.” World IP Day  
2019: Bridging the Intersection of Intellectual Property and Regulations,  
Michigan State University, East Lansing, MI. April 2019.

“Advocacy – Workshop.” ASHP-MCM, Anaheim, CA. December 2018.

“Consumer Behaviors Online Highlight Patient Safety Risks and Education Gaps.” Alliance for Safe Online Pharmacies National Research Symposium, Washington, DC. November 2018.

“Exploiting the Gray Space of Ecommerce.” G2 Web Services National Webinar. November 2018.

“State Affiliate Leaders Workshop: The Indiana Experience.” ASHP-MCM, Las Vegas, NV. December 2016.

“Student Advocacy – Workshop.” ASHP-MCM, Las Vegas, NV. December 2016.

“Medication on Demand - Online Drug Sellers: A Discussion of Legal and Patient Safety Issues.” American Society of Pharmacy Law-Annual Meeting, Austin, TX. November 2016.

“Lean Principles and Medication Safety.” Group Facilitator. ASHP-Medication Safety Collaborative, Baltimore, MD. June 2016.

“Data-Driven Care: Using Information to Improve Health.” Pharmacy OneSource Webinar. January 2016.

“Assessing the Implementation of a Simulated Virtual Cleanroom in Chinese Hospitals.” ASHP-MCM, New Orleans, LA. December 2015.

“Translating Data Into Action: Using Information to Optimize Patient Care.” ASHP-Medication Safety Collaborative, Denver, CO. June 2015.

“Achieving and Maintaining Excellence in Sterile Compounding: Innovative Techniques to Ensure Competency.” ASHP-MCM, Anaheim, CA. December 2014.

“Safety and Quality Pearls: How Locus of Control Impacts Perception of Safety Culture.” ASHP-MCM, Anaheim, CA. December 2014.

“From Networking to Law-making: Leveraging Your Professional Organization to Impact Change.” Latiolais Leadership Program Webinar. August 2014.

“Building and Leading an Inter-Professional Medication Safety Team.” ASHP-Medication Safety Collaborative, Las Vegas, NV. June 2014.

“Linking Your Safety Activities to Performance and Outcomes.” ASHP-Medication Safety Collaborative, Las Vegas, NV. June 2014.



“Comparing Apples to Apples: Developing Medication Safety Metrics and Improving Medication Error Reporting.” ASHP-MCM, Orlando, FL. December 2013.

“Safety and Quality Pearls: Purdue Pharmacy Virtual Cleanroom.” ASHP-MCM, Orlando, FL. December 2013.

“Medication Safety Essentials: Medication Reconciliation and Transitions of Care.” Continuing education, online. November 2013.

“Considerations and Issues in Pharmaceutical Compounding and Manufacturing.” Continuing education, online. October 2013.

“Looking Towards the Future: PPMI in Indiana.” ASHP-Summer Meeting, Minneapolis, MN. June 2013.

“Medication Errors: Causes and Prevention.” ASHP online continuing education. February 2013

“The Indiana Experience: Building a Medication Safety Community.” Webinar: presented to AHA-HRET national meeting. February 2013.

“Safety, Quality, and the Pharmacy Practice Model Initiative: Aligning for Success.” ASHP-Annual Meeting, Baltimore, MD. June 2012. (Co-presenters: Hansen K, Knoer S, Daniels R)

“We were promised flying cars! Moving the profession – and your practice – forward via PPMI.” ASHP NPF Great eXpectations econference. May 2012.

“The Herd, the Pack, the Horde! Using the concepts of Leadership and Followership to separate yourself from the flock.” ASHP-MCM, New Orleans, LA. December 2011. (Co-presenter: Kelley L)

“Advancing the pharmacy practice model: survey of new practitioner attitudes and opinions towards the future of health-system pharmacy.” Presented at The ASHP Pharmacy Leadership Conference, Rosemont, IL. October 2010.

“Extra! Extra! Read All About It! Increasing Positive Publicity for Our Profession.” Roundtable presentation at the ASHP-MCM, Las Vegas, NV. December 2009.

### Regional

“The Big Picture: Cost-Effectiveness Considerations for Delivery of Intravenous Push Products.” Florida Society of Health-System Pharmacists Annual Meeting, Orlando, FL. August 2022.

“Illegal Online Pharmacies and a Pandemic, Current Trends and Risk for Consumers.” Wellness Council of Indiana, Indianapolis, IN. Regional Webinar Program. April 2020.

“Online Pharmacies: What You Need to Know to Keep Patients Safe.” Midwest Medication Safety Symposium, Indianapolis, IN. September 2018.

“Counterfeit Prescription Medicines: Keeping Patients Safe Online and Offline.” Providence Health and Services, Los Angeles, CA. Regional Webinar Program. June 2018.

“Sterile Compounding Competency: Innovations in Education and Training.” Latiolais Leadership Symposium, The Ohio State University. October 2017.

“Integrating Medication Safety into Practice Advancement Efforts.” Feurt Symposium, University of Tennessee. Memphis, TN. October 2015.

“ADEs: Utilizing Measurement as a Foundation for Change.” Missouri Hospital Association Meeting. St. Louis, MO. May 2014.

“Building a Medication Safety Community to Reduce Harm: The Indiana Experience.” Missouri Hospital Association Meeting. St. Louis, MO. May 2014.

“Looking Towards the Future: Advancing Pharmacy Practice through PPMI.” The Ohio State University College of Pharmacy. Columbus, OH. April 2014.

“PPMI: Advancing Your Future Profession.” University of Cincinnati College of Pharmacy. Cincinnati, OH. April 2014.

“Looking Toward the Future: Using PPMI to Advance Pharmacy Practice.” Greater Cincinnati Society of Health-System Pharmacists. Cincinnati, OH. April 2014.

“ADEs: Utilizing Measurement as a Foundation for Change.” Foundation for Health Communities Meeting, Concord, NH. March 2013.

“Advancing the pharmacy practice model: survey of new practitioner attitudes and opinions towards the future of health-system pharmacy.” Presented at The Great Lakes Residency Conference, West Lafayette, IN. May 2010.

“Ketamine Infusion and Associated Adverse Drug Events.” Presented at The Great Lakes Residency Conference, West Lafayette, IN. May 2009.

Local

“Leadership in 2020: Letting Go of Certainty.” IPA Fall Meeting – Virtual. October 2020.

“Pharmacy Reimbursement Optimization Symposium – Moderator.” Butler University, Indianapolis, IN. August 2019.

“2018 Indiana Pharmacists Legislative Advancement.” IPA Fall Meeting, Indianapolis, IN. September 2018.

“2017 IPA Legislative Wins.” IPA Fall Meeting, Indianapolis, IN. September 2017.

“Indiana Healthcare & Pharmacy Legislative Review.” Indiana Pharmacist Alliance Legislative Day, Indianapolis, IN. February 2017.

“Medication Therapy Management and Associated New Law Update.” Annual Indiana Rural Health Conference, French Lick, IN. June 2015.

“Advanced Roles for Pharmacy Technicians: PPMI Update and Pharmacy Technician Law Review.” IPA Fall Meeting, Indianapolis, IN. September 2014.

“Preventing Adverse Drug Events: Tools and Updates.” Indiana Hospital Association/CMSA Medication Safety Alliance Roadshow Meetings. Various locations, IN. August-September 2014.

“ADEs: Utilizing Measurement as a Foundation for Change.” Indiana Hospital Association ADE Collaborative. Indianapolis, IN. July 2014.

“The Pharmacy Practice Model Initiative (PPMI) and Rural Health: Advancing Patient Care.” Annual Indiana Rural Health Conference, Indianapolis, IN. June 2014.

“Indiana’s New Law on Opioid Prescribing: What’s the Impact?” Annual Indiana Rural Health Conference, Indianapolis, IN. June 2014.

“The Purdue Pharmacy Virtual Cleanroom: Education Simulation Without Equal.” Mira Judging Panel. Indianapolis, IN. March 2014, February 2017. (Co-presenter: Abel SA)

“Pharmacy Practice Model Initiative (PPMI) Update.” IPA Fall Meeting, Indianapolis, IN. September 2013.

“Being the Change You Want to See in Pharmacy.” Purdue University Deans Executive Forum, West Lafayette, IN. April 2013.

“Pharmacy Practice Model Initiative: A Look to the Future.” Indiana Pharmacist Alliance Annual Meeting, French Lick, IN. September 2012.

“How to Support Your Cast and Crew – Pharmacy Leadership.” IPA Student Leadership Conference, Indianapolis, IN. July 2012. (Co-presenter: Hultgren KE)

“The Pharmacy Practice Model: Where Are We Going? How Will We Get There?” Indiana Rural Health Conference, Indianapolis, IN. June 2012.

“The Leader-Ship Philosophy.” Presented for the Purdue Pharmacy Leadership Class, West Lafayette, IN. April 2011.

“I Don’t Have Time for This! Quick Skills for Successful Time Management.” Presented at the 2011 NCAP Acute Care Practice Forum Meeting, Winston-Salem, NC. March 2011.

“Ketamine Infusion and Associated Adverse Drug Events.” Presented as Continuing Education at the Central Ohio Society of Health-System Pharmacists. May 2009.

## PUBLICATIONS

### Peer-reviewed

Patel V, Lovett M, Rybarczyk R, **Hertig JB**. Assessing Trustworthiness of Internet Pharmacies with an Internet Browser Extension. *Journal of Medicine Access*. (2023).

Lin ID, **Hertig JB**. Risk Control Drives Risk Assessment and Risk Review: A Cause and Effect Model of Pharmaceutical Drug Recall on Patient Safety. *Journal of Medicine Access*. (2023).

Patel V, Taylor K, Schlick J, **Hertig JB**. A Comparison of Instructions for Use Documents and Manufacturer Produced Administration Videos for Biological Products. *Ther Innov Regul Sci* (2023).

Patel V, Cieslak K, **Hertig JB**. Improving Safety by Evaluating the Impact of the Supply Chain and Drug Shortages on Health-Systems. *Hosp Pharm*. 58(2); 2022 Oct.

Alhabash S, Dong Y, Moureaud C, Muraro IS, **Hertig JB**. Effects of Fear and Humor Appeals in Public Service Announcements (PSAs) on Intentions to Purchase Medications via Social Media. *International Journal of Environmental Research and Public Health*. 2022; 19(19).

Arora P, Muehrcke M, **Hertig JB**. A cost-effectiveness study comparing ready-to-administer and traditional vial and syringe method for opioids. *Pain Ther* (2022).

**Hertig JB**, Kennedy T. Pharmacy Student Perceptions and Knowledge of Online Pharmacy Use. *American Journal of Pharmaceutical Education*. *American Journal of Pharmaceutical Education* (2022; Mar) 8933.

Pyzik O, **Hertig JB**, Kanso H, Chamba A, Khan S. The relationship between fake news and fake medicines: how misinformation has fueled the sale of COVID-19 substandard and falsified medical products. *Journal of EAHIL* 2021; 17 (4): 17-21.

**Hertig JB**, Jochem J, Long A. Pharmacists' Perceptions and Attitudes Toward Drug Importation into the State of Florida. *Journal of Pharmaceutical Policy and Practice*. (2021) 14:101.

Moureaud C, **Hertig JB**, Alhabash S. Purchase of prescription medicines via social media: A survey-based study of prevalence, risk perceptions, and motivations. *Health Policy*. (2021) 1421–1429.

Lin I, **Hertig JB**. Pharmacy Leadership Amid the Pandemic: Maintaining Patient Safety During Uncertain Times. *Hosp Pharm*. 2021 Aug.

Burnworth M, Donley K, **Hertig JB**, Lee J, Lee Y, Little J, Vest T. Pandemic and beyond: policy and advocacy matters, *Am J Health-Syst Pharm*. 2021 Jul; 78(14): 1268–1269.

**Hertig JB**, Shah V, Flühmann B, Mühlebach S, Stemer G, Surugue J, Moss R, Di Francesco T. Tackling the challenges of nanomedicines: are we ready? *Am J Health-Syst Pharm*. 2021 Jun; 78(12): 1047–1056.

**Hertig JB**, James SM, Hummel CJ, Rubin M. Evaluation of pharmacists' awareness of illegal online pharmacies and the impact on pharmacy practice. *Medicine Access @ Point of Care*. 2021 Apr.

**Hertig JB**, Rubin M. Purchasing Medicines Online: What the Data Reveals on the Need for a Shift in Communication Due to the COVID-19 Pandemic. *The Brand Protection Professional Journal (BPP)*. 2020 Dec.

**Hertig JB**, Maloney K. Reviewing patient harm and illegal online drug sellers: A contemporary examination. *Pharmacy Education* (2020) 20(3): 40–65.

**Hertig JB**, Jarrell K, Arora P, Nwabueze J, Moureaud C, Degnan D, Trujillo T. A Continuous Observation Workflow Time Study to Assess Intravenous Push Waste. *Hosp Pharm*. 2020 Jun.

Moureaud C, **Hertig JB**, Weber RJ. Guidelines for Leading a Safe Medication Error Reporting Culture. *Hosp Pharm*. 2020 Jun.

**Hertig JB**, Castek S. What Health Professionals Need To Know: Highlights from the OECD/EUIPO Report on Trade in Counterfeit Pharmaceutical Products. *The Brand Protection Professional Journal (BPP)*. 2020 May.

Gabay, M, **Hertig JB**, Degnan D, Burger M, Yaniv A, Mclaughlin M, Moody M. Third consensus development conference on the safety of intravenous drug delivery systems-2018” *Am J Health-Syst Pharm*. 2020 Feb; 77(3): 215-220.

**Hertig JB**, Baney L, Weber RJ. Current Threats to Maintaining a Secure Pharmaceutical Supply Chain in an Online World. *Hosp Pharm*. 2019 Aug.

Dana KN, **Hertig JB**, Scott CR, Briscoe-Dwyer L. Instruction on compounded sterile preparations at schools of pharmacy. *Am J Health-Syst Pharm*. 2018 Jun; 75(12): 847-849.

Marwitz K, **Hertig JB**, Weber RJ. One Chance for Your Best First Impression: Tips for New Pharmacists. *Hosp Pharm*. 2018 Jun; 53(3) 148–151.

**Hertig JB**, Degnan DD, Scott CR, Lenz JR, Li X, Anderson CM. A Comparison of Error Rates Between IV Push Methods: A Prospective, Multisite Observational Study. *J Patient Saf*. 2018 Mar; 14:60–65.

Lenz JR, Degnan DD, **Hertig JB**, Stevenson, JG. Review of Best Practices for Intravenous Push Medication Administration. *J Infus Nurs*. 2017 Nov/Dec; 40(6):354-358.

Degnan DD, **Hertig JB**, Peters MJ, Stevenson, JG. Board of Pharmacy Practices Related to Medication Errors and Their Potential Impact on Patient Safety. *Journal of Pharmacy Practice*. 2017 Jun; 31(3), 312-321.

Dana KN, **Hertig JB**, Weber RJ. Drug Pricing Transparency: The New Retail Revolution. *Hosp Pharm*. 2017 Feb; 52(2):155–159.

Bai S, **Hertig JB**, Weber RJ. Nontraditional Career Opportunities for Pharmacists. *Hosp Pharm*. 2016 Dec; 51(11):944–949.

Brown KE, **Hertig JB**. Determining Current Insulin Pen Use Practices and Errors in the Inpatient Setting. *Jt Comm J Qual Patient Saf*. 2016 Dec; 42:568-582.

Stokes LB, Rogers JW, **Hertig JB**, Weber RJ. Big Data: Implications for Health System Pharmacy. *Hosp Pharm*. 2016 Jul; 51(7):599-603.

Brechtelsbauer ED, Pennell B, Durham M, **Hertig JB**, and Weber RJ. Review of the 2015 Drug Supply Chain Security Act. *Hosp Pharm*. 2016 Jun; 51(6): 493-500.

**Hertig JB**, Hultgren KE, Weber RJ. Using Contemporary Leadership Skills in Medication Safety Programs. *Hosp Pharm*. 2016 Apr;51(4):338-44.

**Hertig JB**, Hultgren KE, Parks S, Rondinelli R. Development and Assessment of a Medication Safety Measurement Program in a Long-Term Care Pharmacy. *Consult Pharm* 2016; 31:112-8.

**Hertig JB**, Brown K. Utilization of Insulin Pens in Long-Term Care. *Annals of Long-Term Care: Clinical Care and Aging*. 2016; 24(1):17-24.

**Hertig JB**, Weber RJ. Incorporating Pharmacy Scholarship to Management Responsibilities. *Hosp Pharm*. 2015; 50(8):739-43.

**Hertig JB**, Degnan DD. Safety Perspectives on Informatics: Editorial. *Am J Health-Syst Pharm* 2015; 72: 616.

Haumschild RJ, **Hertig JB**, Weber RJ. Managing Conflict: A Guide for the Pharmacy Manager. *Hosp Pharm*. 2015; 50(6):543–549.

Held AD, Woodall LJ, **Hertig JB**. Pharmacists' familiarity, utilization, and beliefs about Health Information Exchange: A survey of pharmacists in an Indiana pharmacy organization. *J Am Pharm Assoc*. 2014; 54:375-379.

Jeffries JA, Jeffries PR, **Hertig JB**, Hultgren KE. Embracing Pharmacy E-Learning: Models of Success. *Pharmacy*. 2013; 1(1):43-52.

Livin A, **Hertig JB**, Hultgren KE. A Uniform Standard for Measuring the Medication Safety Impact of Healthcare Information Technology Implementation. *Hosp Pharm*. 2013; 48(10): 801–802.

**Hertig JB**, Radman D, Sisodiya D, et al. Creating Innovative Leadership Roles to Improve Pharmacy Practice. *Am J Health-Syst Pharm*. 2013. 70: 306-309.

**Hertig JB**. New practitioners and the Pharmacy Practice Model Initiative: Our opportunity to define the future. *Am J Health-Syst Pharm*. 2011. 68:1074-1076.

**Hertig JB**, Jenkins M, Mark SM, Weber RJ. Developing Patient-Centered Services, Part 1: A Primer on Pharmacy Practice Models. *Hosp Pharm*. 2011;46(1):61–65.

**Hertig JB**, Kelley K, Jordan T, Tubbs C, Casper K, Nahata M. Advancing the pharmacy practice model: survey of new practitioner attitudes and opinions. *Hosp Pharm*. 2011; 46:180–9,195.

**Hertig JB**. Followership: Nontraditional leadership roles for New Practitioners. *Am J Health-Syst Pharm*. 2010. 67: 1412-13.

### Book Chapters

**Hertig JB**, Degnan DD. Chapter 16: Patient and Medication Safety. *Health Care Systems, Pharmacy Administration, and Entrepreneurship: Contemporary Topics for Pharmacists (Editors: Bakken and Hertig)*. APhA Publications. In production; expected 2024).

Lin ID, Cieslak K, Patel V, Nicolas M, **Hertig JB**. Global Followership Models and Practices within the Health Care Settings. *Handbook of Global Leadership and Followership: Integrating the Best Leadership Theory and Practice*: Springer Nature; 2023.

Ro S, Degnan D, **Hertig JB**. Medication Errors in Healthcare. *Pharmacovigilance and Drug Safety in Clinical Practice, (Eds.), Textbook*: Springer. Submitted July 2022; Accepted.

**Hertig JB**, Degnan DD (2019). Medication Safety Basics (6<sup>th</sup> Ed.), *Competence Assessment Tools for Health-System Pharmacies, 5th Edition*. Bethesda, MD: American Society of Health System Pharmacists.

**Hertig JB**, Degnan DD (2019). Improving Medication Safety (6<sup>th</sup> Ed.), *Competence Assessment Tools for Health-System Pharmacies, 5th Edition*. Bethesda, MD: American Society of Health System Pharmacists.

Nguyen A, **Hertig JB**, Siegel J (2019). Mentors (4<sup>th</sup> Ed.), *Preceptor's Handbook for Pharmacists*. Bethesda, MD: American Society of Health System Pharmacists.

**Hertig JB** (2017). Think of Your Life-Career as Your Four-Chambered Heart. (1<sup>st</sup> Ed.), *Letters from Rising Pharmacy Stars* (pp. 41-46). Bethesda, MD: American Society of Health System Pharmacists.

Hultgren KE, **Hertig JB** (2017). Quality Improvement and Patient Safety. (6<sup>th</sup> Ed.), *Introduction to Health Care Delivery* (pp. 185-208). Burlington, MA: Jones and Bartlett Learning.

### Best Practice Guidance

Airaksinen M, Aslani P, Eksteen M, Branklin BD, **Hertig JB**, Kusynová Z, Mair A, Walpola R. "Patient safety - Pharmacists' role in 'Medication without harm.'" International Pharmaceutical Federation. The Hague, Netherlands. 2020. <https://www.fip.org/file/4757>

### Non-Peer Reviewed

**Hertig JB**, Sebahar N. Evaluation of Pharmacists' Awareness of the Prevalence and Negative Consequences Associated with Illegal Internet Pharmacies. White Paper Published Online, 2017. Alliance for Safe Online Pharmacies: <https://buysaferx.pharmacy/>.



**Hertig JB**, Anderson CM, Scott CR, Marwitz K, Walters K, Wasynczuk J. Evaluation of Risk Perception Associated with Online Pharmacy Use. White Paper Published Online, 2017. Alliance for Safe Online Pharmacies Foundation: <https://asopfoundation.pharmacy/>.

**Hertig JB**, Anderson CM, Marwitz K, Harrell M. Evaluating Attitudes Towards Legalizing Canadian Online Pharmacies After Opioid Epidemic Messaging Statements. White Paper Published Online, 2017. Alliance for Safe Online Pharmacies Foundation: <https://asopfoundation.pharmacy/>.

Balbach J, **Hertig JB**. Survey of Dietary Supplement Practices and Interventions Used by Pharmacists. *Indiana Pharmacist*. Vol 95:1. 2014.

Otto L, **Hertig JB**. Barriers and incentives to successful immunization programs in Indiana. *Indiana Pharmacist*. Vol 94:1. 2013.

## **SELECT MEDIA APPEARANCES**

**“How To Spot A Fake Online Pharmacy, According To The FDA”** 11.22  
Health Digest, Fishers, IN

**“Tackling The Problem Of Fake Medicines”** 08.22  
In Vivo Pharma Intelligence London, UK

**“Rogue Online Pharmacies Marketing COVID-19 ‘Cures’ Amid Pandemic”** 07.20  
WFYI Public Media, Indianapolis, IN

**“House Bill 1248: Pharmacy Matters”** 01.19  
Testimony: Indiana House Public Health Committee, Indianapolis, IN

**“Legislative Year in Indiana Ends with Big Wins for Pharmacy”** 07.17  
ASHP Newswire, Bethesda, MD.

**“Senate Bill 358: Medication Therapy Management”** 03.15  
Testimony: Indiana House Public Health Committee, Indianapolis, IN

**“Senate Bill 233: Pharmacy Technicians”** 02.14  
Testimony: Indiana Senate Health Committee, Indianapolis, IN

**“Do Generic Drugs Make the Cut.”** 06.13  
Huffington Post, online webcast

**“Generic Drug Safety.”** 03.13  
Fox News, Indianapolis, IN

**“Generic Drug Supreme Court Case.”** 03.13  
WLFJ News, Lafayette, IN

**“Preview: Mutual Pharmaceutical v. Bartlett.”** 03.13  
Marketplace Report, Washington, DC

**“NECC Meningitis Outbreak.”** 10.12  
ABC News, Indianapolis, IN

**“Update on Meningitis Outbreak.”** 10.12  
NPR: Morning Edition, Washington, DC

**“Dangers of Drug Compounding.”** 10.12  
Sunday Morning Newsmakers, Los Angeles, CA

**“Look beyond drug makers to avoid tragedies like meningitis outbreak, Purdue expert says.”** 10.12  
Purdue University Newswire, West Lafayette, IN

## **POSTER PRESENTATIONS/ ABSTRACTS**

### International

**Hertig JB.** “Pharmacy Student Perceptions and Knowledge of Online Pharmacy Use.” Poster: presented at FIP Annual Meeting, Brisbane, Australia. September 2023.

Alhabash S, Dong Y, Moureaud C, Hybels C, Muraro I, Nicolas M, Githua W, **Hertig JB.** “Effects of Fear and Humor Appeals in Public Service Announcements (PSAs) on Intentions to Purchase Prescription Medications via Social Media,” 71st Annual International Communication Association Conference – Virtual. May 2021.

**Hertig JB,** Dana K, Scott C, Briscoe-Dwyer L. “Sterile compounding education review in pharmacy colleges and schools in the united states.” Poster: presented at FIP Annual Meeting, Seoul, South Korea. September 2017.

**Hertig JB,** Truong T. “An Educational Needs Assessment for Improving Medication Safety.” Poster: presented at FIP Annual Meeting, Dusseldorf, Germany. October 2015.

**Hertig JB,** Plake K, Hultgren KE. “Measuring Safety: Dashboard Design for Simulation.” Poster: presented at FIP Annual Meeting, Bangkok, Thailand. September 2014.

Miller M, Karwa R, Shellhase E, Pastakia S, **Hertig JB,** Manji E. “The Development of a Global Health Residency in Kenya.” Poster: presented at FIP Annual Meeting, Amsterdam, The Netherlands. October 2012.

Siegel J, Forrey RA, **Hertig JB**. "Developing a Decision Rubric for Pharmacy Practice Model Planning." Poster: presented at FIP International Meeting, Lisbon, Portugal. October 2010.

National

**Hertig JB**, Maddaluno L, Doornekamp F, Lopes S, Anand S, Barton A, B Flühmann "The Power Of Particles: A New Online Portal To Showcase The Benefits Of Nanomedicines." DIA Meeting, Chicago, IL. June 2022.

Patel V, Taylor K, Schlick J, **Hertig JB**. "A Comparison of Instructions for Use (IFU) and Manufacturer Produced Administration Video Consistency for Biologic Products." DIA Meeting, Chicago, IL. June 2022.

**Hertig JB**, Whitehead M. "Proposing an Educational Framework for Healthcare Professionals on Substandard/Falsified Medications and Illegal Online Pharmacies." AACP Annual Meeting - Virtual Pharmacy Education. Jul 2021.

Dana KN, **Hertig JB**, Scott CR. "Sterile Compounding Review in US-Based Colleges and Schools of Pharmacy." Poster: presented at ASHP-MCM, Las Vegas, NV. December 2016.

Gill E; **Hertig JB**; Fippen P, et al. "Assessing alignment of patient prescription benefits and hospital formularies: a state-wide survey of pharmacy administrators." Poster: presented at UHC, New Orleans, LA. December 2015.

Degnan DD, Booze RL, **Hertig JB**. "Review of the Agency for Healthcare Research and Quality (AHRQ) patient safety culture survey results of pharmacists as compared to other health professionals working in hospitals." Poster: presented at NPSF, Orlando, FL. May 2014.

Balbach J, **Hertig JB**. "Survey of Dietary Supplement Practices and Interventions Used by Pharmacists." Poster: presented at ASHP-MCM, Orlando, FL. December 2013.

Huang L, **Hertig JB**. "Pharmacists' Locus of Control and Perception of Patient Safety Culture." Poster: presented at ASHP-MCM, Orlando, FL. December 2013.

**Hertig JB**, Abel SA, Campion M. "Developing the Purdue Pharmacy Virtual Cleanroom." Poster: presented at ASHP-MCM, Orlando, FL. December 2013.

Held A, Woodall L, **Hertig JB**. "Pharmacists' perceptions and utilization of Health Information Exchange technology: a survey of Indiana pharmacists." Poster: presented at ASHP-MCM, Orlando, FL. December 2013.

Jeffries J, **Hertig JB**, Hultgren KE. "The Impact of Consumer Health Literacy on the Potential for Unintentional Overdose with Acetaminophen: Patient's Perspectives." Poster: presented at ASHP-Summer Meeting, Minneapolis, MN. June 2013.

Otto L, **Hertig JB**. "Pharmacists and Public Health: Barriers and incentives to successful immunization programs in Indiana." Poster: presented at ASHP-MCM, Las Vegas, NV. December 2012.

Jeffries J, **Hertig JB**, Hultgren KE. "The Impact of Consumer Health Literacy on the Potential for Unintentional Overdose with Acetaminophen: Patient's Perspectives." Poster: presented at ASHP-MCM, Las Vegas, NV. December 2012.

Livin A, **Hertig JB**, Hultgren KE. "A Uniform Standard for Measuring the Medication Safety Impact of Healthcare Information Technology Implementation." Poster: presented at ASHP-MCM, Las Vegas, NV. December 2012.

Mirtallo J, **Hertig JB**. "Parenteral Nutrition (PN) Education using a Competency Checklist." Poster: presented at Clinical Nutrition Week 2010 in Las Vegas, NV, February 2010.

**Hertig JB**, Kelley K, Jordan T, et al. Masters Project: "Advancing the pharmacy practice model: survey of new practitioner attitudes and opinions towards the future of health-system pharmacy." Poster: presented at ASHP-MCM, Las Vegas, NV. December 2009.

**Hertig JB**, Kelley K, Jordan T, Tubbs C, Casper K, Nahata M. Masters Project: "Advancing the pharmacy practice model: survey of new practitioner attitudes and opinions towards the future of health-system pharmacy." Poster: presented at UHC Annual Meeting, Las Vegas, NV. December 2009.

**Hertig JB**, Jordan T, Hafford A, et al. "Evaluation of Pharmacy Services in an Ambulatory Surgery Unit (ASU): Opportunity for Service Enhancement." Poster: presented at ASHP-MCM, Orlando, FL. December 2008.

## **AFFILIATIONS/ SERVICE**

### **International Pharmaceutical Federation** 08.13-present

- Treasurer, Hospital Section 09.22-present
- Member, Board of Pharmaceutical Practice (BPP) 09.22-present
- Member, Working Group on Patient Safety (collaboration with World Health Organization) 06.18 - present
- Vice President of the Americas, Hospital Section 09.18-08.22
- Webinar Program Organizer, Hospital Section 07.16 – 02.19

**American Society of Health-System Pharmacists 08.04-present**

- Section Editor, Pharmacy Competency Assessment 07.21-06.23
- State Delegate/Alternate, House of Delegates 05.14-06.23
- Lead Coach, Medication Safety Scholars Program 07.21-06.22
- PAC-Advisory Committee 03.15-06.21
- Director, Section of Inpatient Care Practitioners 06.15-06.17
- Chair, Council on Public Policy 05.14-05.15
- Medication Safety Section Advisory Group 06.13-06.16
- Pharmacy Practice Advancement Advisory Group 06.13-06.16
- Vice-Chair, Council on Public Policy 06.12-05.14
- Council on Public Policy 06.12-05.13
- Practice Model Coordination Committee 05.11-06.12
- Commission on Affiliate Relations 06.11-05.12
- Section of Pharmacy Practice Managers Leadership and Career Development Advisory Group 09.11-05.13
- Chair, New Practitioner Forum Executive Committee 06.10-05.11
- New Practitioner Forum Executive Committee 06.09-05.10
- Executive Committee Liaison to the Policy and Advocacy New Practitioners Forum Advisory Group 06.09-05.10
- New Practitioner Forum Advisory Group 06.08-05.09
- Student Forum Executive Committee 06.07-05.08
- Council on Pharmacy Practice 06.06-05.07

**Indiana Pharmacists Alliance 09.11-present**

- Legislative and Regulatory Taskforce 09.15-10.19
- Chair, Legislative and Regulatory Taskforce 01.17-08.18
- Immediate Past President, Indiana Society of Health-System Pharmacists 12.14-12.15
- President, Indiana Society of Health-System Pharmacists 12.13-12.14
- President-Elect, Indiana Society of Health-System Pharmacists 12.12-12.13
- Chair, Indiana Pharmacy Practice Model Task Force 07.12-12.13
- IPA Membership Task Force 09.11-08.12

**University Health-System Consortium 08.09-08.11**

- Project Chair, Best metrics to measure pharmacy 01.11-08.11
- Performance Improvement and Compliance Committee 08.09-08.11
- Pharmacy Practice Model Committee 08.09-08.11

**North Carolina Association of Pharmacists 08.10-08.11**

- Acute Care Liaison, New Practitioners Network Executive Committee 09.10-08.11

**Ohio Society of Health-System Pharmacists 07.08-06.10**

- Legal Affairs Division 07.09-06.10
- Organizational Affairs Division 07.08-06.09

**Central Ohio Society of Health-System Pharmacists 07.08-06.10**

- Resident Member of the Board of Directors 07.09-06.10

**HONORS/AWARDS**

**Fellow of the International Pharmaceutical Federation (FFIP)**

09.22

**Pharmacist Mentor of the Year, Indiana Pharmacist Alliance**

03.22

**Fellow of the American Society of Health-System Pharmacists (FASHP)**

06.19

**Holcomb Awards Committee International Travel Grant 01.19**

**ASOP – Global Patient Safety Champion Award 11.18**

**Medication Safety Pharmacist of the Year, Indiana Pharmacist Alliance**

09.17

**TechPoint Mira Awards Finalist: Education Tech Award 05.14, 05.15,**

05.17

**Henry Cade Memorial Award** (accepted on behalf of the Alliance for Safe Online Pharmacies – Global, Board of Directors), **National Association of Boards of Pharmacy.** 05.16

**Feurt Symposium Honored Lecturer, University of Tennessee College of Pharmacy.** 10.15

**“Excellence in Innovation” Award, National Alliance of State Pharmacy Associations and Upsher-Smith Laboratories.** 09.15

**Glen J. Sperandio Health-System Pharmacist of the Year, Indiana Pharmacist Alliance.** 09.14

**State Affiliate President’s Award, American Society of Health-System Pharmacists.** 09.14

**Purdue University College of Pharmacy Innovation in Teaching and Learning Award.** 05.14

**Purdue University College of Pharmacy Dean’s Executive Forum Lecture** 04.13

**American Society of Health-System Pharmacists Distinguished Service Award, New Practitioners Forum 12.12**

**“Message to Garcia” OSUMC Resident Leadership Award 06.10**

**Timothy D. Moore Award for Exceptional Residency Project, awarded by The Ohio State University College of Pharmacy 06.10**

**Mylan Excellence in Pharmacy Award 05.08**

**Purdue Mortar Board Member 08.06-05.07**

**COMMUNITY  
SERVICE**

**Referee 01.11-present**  
Westfield Youth Soccer Association  
Westfield, IN

**Vice President 11.11-11.16**  
Board of Trustees, Alpha Tau Omega, Gamma Omicron Chapter  
West Lafayette, IN

**LICENSURE/  
CERTIFICATIONS/  
CREDENTIALS**

**Certified Professional in Patient Safety (CPPS) 10.13-present**

**Indiana Pharmacist License 11.11-present**

**Six Sigma Green Belt 04.11**

**Ohio Pharmacist License 07.08-present**

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