Medication Error Prevention for Pharmacy and Pharmacy Technicians

Presented by: The Florida Professional Liability Self-Insurance Programs

Disclosure Statement: The Florida Professional Liability Self-Insurance Program has disclosed that they have no relevant financial relationships. No one else in a position to control content has any financial relationships to disclose.

Requirements for Successful Completion: This CME activity consists of an educational component (slides, audio/online lecture) which is followed by an online post-test. Certificates are awarded upon successful completion (80% proficiency) of the post-test. In order to receive credit, participants must view the presentation in its entirety.

Release Date: 07/01/2023 **Expiration Date:** 06/30/2025

Target Audience: Pharmacists and Pharmacy Technicians

Learning Objectives: As a result of the participation in this activity, participants should be able to:

- 1. Explain the difference between Medication Error, Adverse Drug Event and Adverse Drug Reaction.
- 2. Discuss the multiple factors propelling medication error prevention and patient safety efforts.
- 3. Review Joint Commission standards, state and federal agency regulations relating to Sentinel/Adverse Events, process of Failure Mode and Effect Analysis and Root Cause Analysis.
- 4. Discuss patient safety origins and Joint Commission patient safety goals.
- 5. Provide information on adverse drug events and current insurance claims data.
- 6. Examine common causes of medication errors, consumer and provider barriers and error prevention strategies.
- 7. Review Florida Board of Pharmacy actual case scenarios and actions.

Credit: This two-hour course has been approved by the Florida Board of Pharmacy as satisfying the two hour medication error prevention licensure renewal requirement. Course participants should claim only the credit commensurate with the extent of their participation in the activity.

Contact: If you have any questions please feel free to contact SIPHELP at (352) 273-7006 or at SIPHELP@ad.ufl.edu.

Bibliographic Sources:

- 1. Taylor, Ellen, AIA, MBA, EDAC; Keller, Amy, March, EDAC. Creating Safer and More Efficient Pharmacies through Evidence-Based Design. JPSW May/June 2012
- 2. Nebeker, Jonathon R., MS, MD; Barach, Paul, MD MPH; Samore, Matthew H., MD; Clarifying Adverse Drug Events: A Clinician's Guide to Terminology, Documentation and Reporting. Annals of Internal Medicine http://analls.org/article.aspx?articleid=71754
- 3. Aspen, Philip; Wolcott, Julie; Bootman, J. Lyle; Cronenwett, Linda R.; Editors; Preventing Medication Errors: Quality Chasm Series
- 4. Peterson, G. M., PhD, FSHP; M. S. H. Wu and Bergin, J. K., BPharm MBA; Pharmacists' attitudes towards dispensing errors: their causes and prevention. Journal of Clinical Pharmacy and Therapeutics (1999)
- 5. Rashidee, Ali, MD, MS; Hare, Juliana, BSN, MPH, CPHQ; Chen, Jack, MS; Kumar, Sanjaya, MD, MSc, MPH; High-Alert Medications: Error Prevalence and Severity. Data Trends http://www.psqh.com/julyaugust-2009/164-data-trends-html
- 6. McCarthy, Kevin, R.Ph. Medication Errors and Public Safety: Tragic Consequences When the System Breaks Down; PharmCon Inc. May 16, 2011
- 7. Gianutsos, Gerald, PhD, JD; Identifying Factors That Cause Pharmacy Errors USPharmacist.com; http://www.uspahamacist.com/continuing_education/ceviewtest/lessonid/105916/ December 1, 2008
- 8. O'Donnell, James T., PharmD, MS, FCP, ABCP, FACN, CNS, RPh; Pharmacist Practice and Liability; Journal of nursing Law, Volume 10, Number 4, 2005
- 9. Prevention Medication Errors; Institute of Medicine of the National Academies July 2006

- 10. Prescription Errors and Their Legal Consequences: Best Practices for Prevention http://www.pharmgd.com/node/82705/lesson 2011
- 11. Nair, Rama P., RPh; Kappil, Daya, RPh; Woods, Tonja M., PharmD
- 10. Strategies for Minimizing Dispensing Errors January 2010
- http://www.pharmacytimes.com/publications/issue/2010/January2010/P2PDispensingError
- 12. ISMP Warns that Emphasizing Speed in Community Pharmacy Prescription Dispensing can Lead to Errors Medical News Today, June 7, 2011
- 13. Prevention of Adverse Drug Events in Hospitals; www.uptodate.com September 2012
- 14. Cina, Jennifer L., Pharm.D.; Gandhi, Tejal K., MD, MPH; Churchill, William, MS, RPh; Fanikos, John, MBA, RPh; McCrea, Michelle, RPh; Mitton, Patricia; Rothschild, Jeffrey M., MD, MPH; Featherstone, Erica; Keohane, Carol, RN; Bates, David W., MD, MSc; Poon, Eric G., MD, MPH; How Many Hospital Pharmacy Medication Dispensing Errors Go Undetected? Joint Commission In Journal On Quality And Patient Safety February 2006/Volume 32/Number 2
- 15. Zafar, Atif, MD; Hickner, John, MD; Pace, Wilson, MD; Teirney, William, MD; Ad Adverse Drug Event and Medication Error Reporting System for Ambulatory Care (MEADERS) AMIA Annual Symposium Proceedings Archive, 2008
- 16. Eramo, Lisa A; How to Avoid CPOE Pitfalls For The Record, Volume 22, Number 15,

http://www.fortherecordingmag.com/archives/081610p10.shtml

- 17. Grasha, Eric M.; Discovering Pharmacy Error: Must Reporting, Identifying and Analyzing Pharmacy Dispensing Errors Create Liability for Pharmacists? Ohio State Law Journal, Volume 63:1419 (2002)
- 18. Van der Siis, Heleen, MSc, RPh; Aarts, Jos, PhD, Vulto, Arnold, MSc, RPh, PhD; Berg, Marc, MD, MA,PhD; Overriding of Drug Safety Alerts in Computerized Physician Order Entry, Journal of the American Medical Informatics Association, 2006 Mar-Apr
- 19. Vivian, Jesse C., BS Pharm, JD: Criminalization of Medication Errors USPharmacist.com 2009;34(11):66-68
- 20. Prescription for Improving Patient Safety: Addressing Medication Errors A report from The Medication Errors Panel, Pursuant to California Senate Concurrent Resolutions 49 (2005) March 2007
- 21. Kehone, Carol A., BSN, RN; Bates, David W., MD, MSc; Medication Safety, Obstetrics and Gynecology Clinics of North America 35 (2008)
- 22. Guidelines on Preventing Medication Errors in Pharmacies and Long-Term Care Facilities Through Reporting and **Evaluation ascp Guidelines**
- 23. Aronson, Jeffrey K.; Medication Errors: Definitions and Classification British Journal of Clinical Pharmacology 2009
- 24. Kesselheim, Aaron S.; Cresswell, Kathrin; Phansaldar, Shobha; Bates, David W.; Sheikh, Aziz: Clinical Decision Support Systems Could Be Modified To Reduce 'Alert Fatigue' While Still Minimizing The Risk Of Litigation. Health Affairs/December 2011
- 25. Cheung, Ka-Chun; Bouvy, Marcel L.; De Smet, Peter A. G. M: Medication Errors: The Importance of Safe Dispensing. British Journal of Clinical Pharmacology 2009 June
- 26. ISMP's List of Confused Drug Names, Institute for Safe Medication Practices June 2011
- 27. ASHP Guidelines: Minimum Standard for Pharmacies in Hospitals
- 28. Physical Environments That Promote Safe Medication Use, 2010 The United States Pharmacopeial Convention
- 29. The Mechanical Errors, Pharmacists Mutual Companies
- 30. FDA and ISMP Work to Prevent Medication Errors, Institute for Safe Medicaation Practices
- 31. ISMP Warns that Emphasizing Speed in Community Pharmacy Prescription Dispensing Can Lead to Errors, Institute for Safe Medication Practices, June 6, 2011
- 32. ISMP's List of Error-Prone Abbreviations, Symbols and Dose Designation, Institute for Safe Medication Practices
- 33. Santell, John P.; Hicks, Rodney W.; McMeekin, Judy and Cousins, Diane D.; Medication Errors: Experience of the United States Pharmacopeia (USP) MEDMARX Reporting System. The Journal of Clinical Pharmacology July 1, 2003