

## **A Work Process Design Strategy to Reduce Bar Code Medication Administration (BCMA) Side Effects for Improved Patient Safety**

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### **Abstract**

The project provides an opportunity for modeling the impact of work design – process and structure – on unanticipated side effects and satisfaction with Bar Code Medication Administration (BCMA) implementation. After measuring and verifying BCMA success and deficiencies at the local VA Hospital which has had BCMA in place for many years, the results will be used to construct a work process model that will be incorporated into the planning for BCMA implementation at another local hospital, Wishard Health Services (WHS). The new work process design will be incorporated into the procedures and educational programming developed prior to BCMA implementation at WHS. The goal of the study is to preemptively reduce and/or eliminate the potential for deficiencies and unintended side effects that could lead to adverse events at WHS from BCMA implementation. The model applied at WHS will include successful practices and exclude those work processes that resulted in barriers to safe practices at the VA Hospital. The project will be done with the cooperation of staff from the patient safety teams in both hospitals and researchers from Purdue University Schools of Pharmacy and Engineering.