

Sentri7[®]

Pharmacy Clinical Services

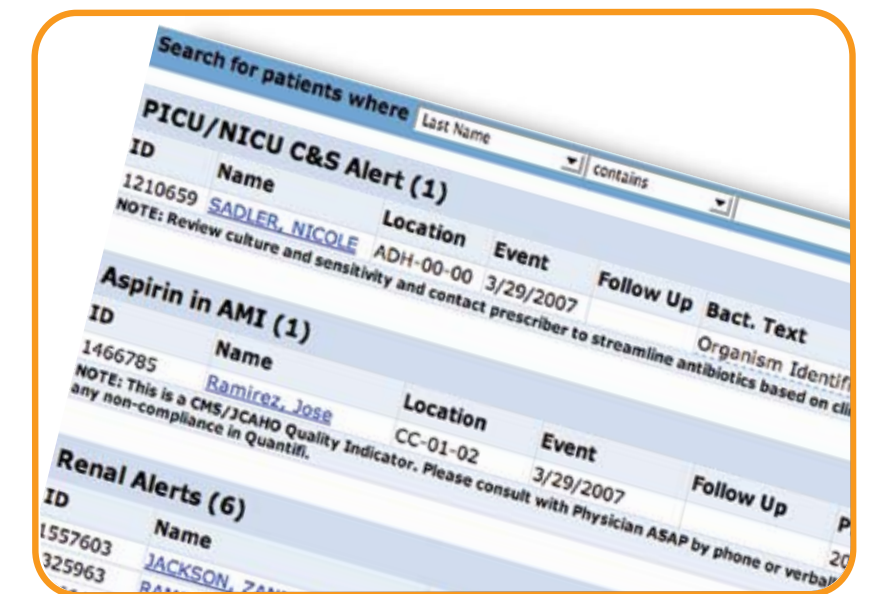
Clinical Excellence and Safety

PROBLEM

The majority of clinical pharmacists spend 1 to 2 hours per day performing profile reviews. Most of the time is lost on painstakingly gathering, organizing and scanning the data from disparate electronic and paper sources. Sentri7 automates this process by acquiring lab results, medication lists and patient data, organizing these data, and assessing to determine where and how to intervene. Most excitingly, no additional or duplicative data entry is required. This gives the clinical pharmacist more time to make and act upon clinical decisions.

BUSINESS IMPLICATIONS

The Sentri7 program is the cornerstone of the Providence Health & Services System Strategic Initiative for Pharmacy Practice Automation. Sentri7 will allow clinical pharmacists to proactively manage medication therapy throughout our acute care facilities. This software has lead directly to improved clinical outcomes and significant cost avoidance.



WHAT WE HAVE ACHIEVED SO FAR

Savings from clinical pharmacy interventions

	Providence St. Vincent Medical Center	Holy Family Hospital
Pre Sentri7 implementation	\$1,321,950	\$ 925,275
Post Sentri7 implementation	\$1,544,142	\$1,079,305
Savings from Sentri7	\$ 222,192	\$ 154,030

Metrics measured to evaluate the success of the Sentri7 pilot

Description	Target Metric Met When	Results
1. Comparison to current decision support process: <ul style="list-style-type: none"> • IV to PO • Renal function • Troponin • Warfarin INR • Phenytoin level 	100% of patients meeting criteria on HFH reports included on Sentri7 report	Met Target
2. Comparison of documented changes in therapy: <ul style="list-style-type: none"> • Number of interventions changed by pharmacist originating from the Sentri7. • Number of interventions per patient day documented during the trial period vs. historic data. 	25% of total interventions documented originate from Sentri7. A relative increase of at least 10% in those related to the rules in Sentri 7 compared to the previous data is expected.	Exceeded Target
3. Comparison of time spent in reviewing patient medication therapy: <ul style="list-style-type: none"> • Evaluation completed by the clinical pharmacists involved in the trial. • A comparison of RVU data during the trial period vs. historic data. 	A minimum score average of 4 or greater from the evaluation on a scale of 1-5 (5 being the best).	Met Target

“We have been able to document significant strides in quality improvement and patient safety using Sentri7 by being able to leverage expertise of the pharmacists. With the help of this tool we can more efficiently identify, prevent and resolve medication-related issues. That results in better therapy for the patient, greater success at meeting quality indicators and significant improvement in patient safety by identifying potential and actual medication errors.”

Steve Pickette, B.S., Pharm., BCPS System Manager, Pharmacy Clinical Services

“Sentri7 is an excellent example of how advanced information technology simultaneously can promote enhanced clinical quality and reduced costs, addressing two significant strategic goals for Providence. It provides intelligent monitoring and sensing, working on top of our systems and processing data real time to support clinical practice. The Application Service Provider (ASP) delivery method puts low demands on IS. The most significant work is to design and maintain interfaces, and the pilot provided good insight into McKesson and MEDITECH data exchanges.”

John Jay Kenagy, PhD, Vice President and Chief Information Officer, Providence Health & Services