

**Priority:** Accountability **Lead Agency:** Health Department  
**Program Offer Type:** Innovative/New Program **Program Contact:** BURROW Gayle F  
**Related Programs:**  
**Program Characteristics:** One-Time-Only Request

**Executive Summary**

Corrections Health Electronic Medical Records (EMR) and Pharmacy systems will enable Corrections Health to electronically capture all medical encounters, evaluate and retrieve information by location and produce clinical, productivity and management reports. An electronic pharmacy system will integrate all aspects of pharmacy including direct electronic ordering of medications and medicine administration.

**Program Description**

Initial one time only costs will be required for purchase of the system, staff training, vendor consulting, customizations, establishing interfaces with Sheriff's Office and Quest Lab system, converting existing data from Legacy system, hardware, project management and possible research for compatibility with the Health Department EMR and DCHS Raintree programs. The EMR and Pharmacy system will allow Corrections Health to eliminate inefficiencies from manual medical charting and Pharmacy system by electronically maintaining records of all medical encounters, accept and transmit Pharmacy orders, incorporate laboratory and radiographic data, allow retrieval and analysis of all data from any location. All pharmacy interactions including ordering, distribution, and administration of medications will be recorded.

**Program Justification**

Utilization of an EMR and Pharmacy system will produce long term gains in quality and efficiency. In Corrections Health, quality assurance projects, County Auditor reports and the recent patient safety survey have outlined the profound safeguards an EMR and Pharmacy system can provide. Corrections Health has unique needs for an EMR including an interface with the Sheriff's Office and County Health Department computer systems to track inmate movement and obtain demographics and a unique need for information collection and management regarding disease monitoring and prevention. Commercially available systems provide these capabilities and are successfully operating in many similar corrections systems. The use of a comprehensive system will allow monitoring of chronic disease, tracking of infectious disease and ensure the use of established clinical protocols. The level of medical complexity encountered in Corrections Health requires a comprehensive EMR capable of information management originating from multiple sources and users. Pharmacy management is critical to a safe effective and cost efficient program. A high percentage of preventable medical errors occur in Pharmacy: errors in the transcription of pharmacy orders and errors in medication administration can be significantly reduced by a comprehensive Pharmacy system. Improved formulary management and tracking of expenditures can also be achieved surpassing the capabilities of the current manual system.

**Performance Measures**

Measure Type	Primary Measure	Previous Year Actual (FY05-06)	Current Year Purchased (FY06-07)	Current Year Estimate (FY06-07)	Next Year Offer (FY07-08)
Output	Average number of medical records that will not need to be transported daily	0	0	0	250
Outcome	# of booking evaluations input electronically instead of hand written monthly	0	0	0	3,000
Quality	Number of prescriptions ordered electronically instead of written monthly	0	0	0	49,000

**Performance Measure - Description**

1. This represents a savings of about 1/2 hour per day in transporting time and effort. Data collection regarding productivity and utilization of resources will be available for monitoring and reports. Chronic disease data will allow tracking and outcome evaluation for important chronic diseases seen in Corrections Health. EMR will improved charting with subsequent risk reduction and pharmacy computerization will provide quality improvement and efficiency.

## Legal/Contractual Obligation

The right to health care in jail is legally mandated under Federal and State law. When an individual is arrested and incarcerated, the obligation for health care falls upon the government as a matter of constitutional law, enforceable under the US Constitution's 8th Amendment and the 14th Amendment's due process clause. Failure to provide health care amounts to deliberate indifference to serious medical needs. State laws (ORS 169.075) further delineate standards for local correctional facilities.

## Revenue/Expense Detail

	Proposed General Fund	Proposed Other Funds	Proposed General Fund	Proposed Other Funds
Program Expenses	2007	2007	2008	2008
Personnel	\$0	\$0	\$0	\$170,305
Contracts	\$0	\$0	\$0	\$100,000
Materials & Supplies	\$0	\$0	\$0	\$970,000
Internal Services	\$0	\$0	\$0	\$26,400
Subtotal: Direct Exps:	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$1,266,705</b>
Administration	\$0	\$0	\$0	\$0
Program Support	\$0	\$0	\$0	\$0
Subtotal: Other Exps:	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>
Total GF/non-GF:	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$1,266,705</b>
Program Total:	<b>\$0</b>		<b>\$1,266,705</b>	
Program FTE	0.00	0.00	2.00	0.00
<b>Program Revenues</b>				
Program Revenue for Admin	\$0	\$0	\$0	\$0
<b>Total Revenue:</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>

## Explanation of Revenues

Initial costs will involve purchase of an appropriate system, equipment and installation costs. One time only costs for the system purchase and installation will be \$1.2 million, which includes a project contingency of 10%. Estimated on going system maintenance charges and IT support will be approximately \$330K. Financial savings with an EMR and electronic pharmacy system are reflected in every aspect of the program. Activities such as pulling charts, filing lab slips, copying medication records and release of information forms, and filling transfer records would be more efficient or eliminated with an electronic system. Experienced electronic vendors and the King County Jail RFP stated they could realize \$1.5 million in system savings over five years. They state overall efficiencies, reduction of errors, decrease in repeated activities and elimination of waste as methods that realize savings. Not as tangible is patient safety. Preventing errors from a human based system lowers potential legal action by clients. After the first year, we could save approximately \$160K with reductions in support staff from records handling and transporting. As an example, if nurses saved one hour a day from checking, implementing and verifying the accuracy of orders, it would save \$100,000. Ongoing EMR costs would offset some savings that would be balanced with other efficiencies and changes in staffing.

## Significant Program Changes

**Last year this program was:**

New one-time program offer for planning and implementation of the program.