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Program # 40050 - Corrections Health - EMR	Version 2/17/2006 s

Priority:	Accountability	**Lead Agency:**	Health Department
Program Offer Type:	New Program	**Program Contact:**	BURROW Gayle F

Related Programs:

Program Characteristics: One-Time-Only Request

Executive Summary

Electronic Medical Records (EMR)and Pharmacy system to be implemented for Corrections Health. The electronic medical records system 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

An electronic medical records system that meets the unique needs of Corrections Health will be selected. Initial one-time only costs will be required for purchase of the system, staff training, vendor consulting, customizations, establishing interfaces will Sheriff's office computer system and Quest Lab system, converting existing data from legacy system, hardware, and project management. The EMR and Pharmacy system will allow Corrections Health to eliminate inefficiencies that result from manual medical charting and Pharmacy system by elctronically 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. The plan is to solicit sytems for selection in 2006. Staff from County Information Technology, the Health Department and the Sheriff's Office will coordinate efforts in the selection and implementaion process.

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 advantages an EMR and Pharmacy system can provide. Corrections Health has unique needs for an EMR including an interface with the Sheriff's Office computer system 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 (FY04-05)	Current Year Purchased (FY05-06)	Current Year Estimate (FY05-06)	Next Year Offer (FY06-07)
Output	Number of medical record transported per day between facilities	0	0	50	0
Outcome		0	0	50	0

Performance Measure - Description

Data collection regarding productivity, utilization of resources will be available for monitoring and reports.Chronic disease data will allow tracking and outcome evaluation for important chronic and infectious diseases seen in Corrections Health. EMR will improve charting with subsequent risk reduction and pharmacy computerization will provide quality improvement efficiency

Revenue/Expense Detail

	Proposed General Fund	Proposed Other Funds	Proposed General Fund	Proposed Other Funds
Program Expenses	2006	2006	2007	2007
Personnel	$0	$0	$157,585	$0
Contracts	$0	$0	$91,000	$0
Materials & Supplies	$0	$0	$970,000	$0
Internal Services	$0	$0	$26,400	$0
Subtotal: Direct Exps:	**$0**	**$0**	**$1,244,985**	**$0**
Administration	$0	$0	$0	$0
Program Support	$0	$0	$0	$0
Subtotal: Other Exps:	**$0**	**$0**	**$0**	**$0**
Total GF/non-GF:	**$0**	**$0**	**$1,244,985**	**$0**
Program Total:	**$0**		**$1,244,985**	
Program FTE	0.00	0.00	0.00	0.00
Program Revenues				
Program Revenue for Admin	$0	$0	$0	$0
Total Revenue:	**$0**	**$0**	**$0**	**$0**

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%. 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 out transfer records would be more efficient or eliminated with an electronic system. Experienced electronic records 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 per year incurred transporting records. If nurses saved one hour a day of checking, implementing, and verifying the accuracy of orders, it would $100,000 a year. It is likely on-going EMR costs would be offset by equivalent savings.

Significant Program Changes

Last year this program was: