



The Office of the National Coordinator for Health Information Technology

Maine Health Information Technology Strategic and Operational Plan Profile

Overview

The Maine Health Information Exchange (HIE) vision is to preserve and improve the health of the people of Maine. The state realizes that this requires a transformed patient-centered health system that uses highly secure, integrated electronic health information systems to advance access, safety, quality, and cost efficiency in the care of individual patients and populations.

Maine’s State HIE Program is managed out of the Office of the State Coordinator for Health Information Technology (OSCHIT), which is advised by a 26-member Health Information Technology (HIT) Steering Committee (Steering Committee) and five standing sub-committees. HealthInfoNet (HIN) is the statewide HIE service provider.


HealthInfoNet manages a provider portal that interfaces with electronic health records (EHR), hospital labs, the Maine Center for Disease Control, and others to support robust statewide HIE services. HealthInfoNet and the HIT Coordinator work closely with the Eastern Maine Healthcare Beacon Community to meet its goals. The Beacon Community is working to improve the health of people with chronic conditions such as diabetes, chronic obstructive pulmonary disease, congestive heart failure, and asthma, and relies heavily on participating providers’ ability to easily exchange critical health information.

Model and Services

Providers with electronic health records connect to HealthInfoNet to receive and exchange clinical information. Using the network, providers also share information such as drug allergies, prescriptions, medical conditions, and lab and test results.

HealthInfoNet uses CCD data set as the foundation for HIE content, which:

- Provides semantic data mapping to achieve data standardization for critical categories of clinical content (e.g., labs, prescription medications, diagnostic studies);
- Supports statewide registries, including a master patient index, a master provider index, and a patient-centered clinical data summary;
- Connects to the state public health information structure to support the automated reporting of clinical data for public health surveillance and population management; and,
- Implements consumer privacy and security management practices.



State: Maine

HIT Coordinator: Jim Leonard

State Designated Entity: State of Maine/Center for Disease Control

Award Amount: \$6,599,401

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Website: <http://www.maine.gov/hit>

Other Related ONC funding in Maine:

Regional Extension Centers (RECs):
HealthInfoNet: \$4,777,483

Maine Healthcare Beacon
Community: \$12,749,740

Workforce Development: \$500,000



Highlights

- **Implementation:** HealthInfoNet began with a two year demonstration phase, but is currently rolling out services statewide. In 2011, HealthInfoNet expanded to include bidirectional HIE services and enable providers to meet all Stage 1 Meaningful Use requirements related to exchange, including:
 - Providing patients with clinical summaries (from individual professionals) for each office visit;
 - Providing patients with electronic copies of hospital discharge instructions and/or an electronic copy of their health information, including diagnostic test results, problem lists, medication lists, medication allergies, and discharge summary and procedures (from hospitals);
 - Incorporating clinical laboratory test results into EHRs as structured data;
 - Generating lists of patients by specific conditions to use for quality improvement, reduction of disparities, research, and outreach; and,
 - Using EHR technology to identify and provide patient-specific education resources as appropriate.
- **Public Health Reporting:** HealthInfoNet enables automated laboratory result exchange for 30 of the 72 diseases mandated for public reporting by the State of Maine. HealthInfoNet delivers the Public Health Information Network Management System (PHINMS) transport standard required by the Maine Center for Disease Control (MCDC) to communicate automated laboratory test results to the public health information infrastructure. The operational plan calls for the statewide exchange to support public health syndromic surveillance in the next phase of HealthInfoNet development. Furthermore, HealthInfoNet and the state are working with the MCDC and the Beacon Community Project Team (Eastern Maine Healthcare) to develop interfacing capability for the current statewide immunization registry, Impact II. This capability is a fundamental goal of the grant.
- **Coordination with Workforce Development:** Maine is closely communicating with both community college and university systems to coordinate efforts on workforce development. Maine's community college system is a sub-recipient (of Tidewater Community College) for the ONC community-based training to develop and support educational programs in health information technology. The State HIT Coordinator is also participating in the state university system's planning group as well as with the University of Maine Farmington on their Bachelors of Science health informatics program. The intent is to have a developed and operational program for incoming freshman in 2012.
- **Coordination with Medicaid/CHIP:** The state HIT Coordinator; Maine's Medicaid Program, MaineCare; and the Maine Center for Disease Control (MCDC) are coordinating efforts on a Children's Health Insurance Plan Reauthorization Act (CHIPRA) grant in conjunction with Vermont. This grant will provide an opportunity to automate the Bright Futures, Early and Periodic Screening Diagnosis and Treatment (EPSDT) data. This information is currently manually collected on children and adolescents from birth through age 18. HealthInfoNet is collaborating with this group to both automate the Bright Futures forms and include automated reporting capacities within the HealthInfoNet exchange reporting tools. Reporting at the population levels will benefit both the MaineCare and Maternal and Child Health Division of the MCDC.



Meaningful Use

	<u>Landscape</u>	<u>Strategy</u>
<u>E-Prescribing</u>	The state has determined that e-prescribing functionality is largely available for providers through their EHR products or other publically available tools (e.g., web-based solutions). The two remaining gaps are enabling e-prescribing at the remaining 11% of retail pharmacies and ensuring EHR e-prescribing functionality.	Broadband access is a key issue for many Maine communities. The HIT Coordinator is working with other state agencies on two broadband applications to fully connect Maine providers. In addition, the state and HealthInfoNet are working with the academic pharmacy program at the University of New England and RiteAid to develop support function and interfaces between HealthInfoNet and pharmacies. The goal is to create a link between existing pharmacy record management systems and HealthInfoNet to provide pharmacists with patient data that will allow them to more fully participate as members of clinical care teams.
<u>Structured Lab Results</u>	Currently, many providers receive lab results electronically through point-to-point connections. A key service provided by HealthInfoNet is the mapping of individual lab codes to Logical Observation Identifiers Names and Codes (LOINC) coding. HealthInfoNet supports the electronic reporting of lab results for 70% of the labs in the state. However, this information is not currently bi-directional and cannot be incorporated in a provider's EHR system.	<p>The State plans to have enabled bi-directional, structured lab data exchange by 2011. Specific gaps that the state and HealthInfoNet are working to address include: 1) securing LabCorp and Quest's participation in HealthInfoNet (and thus enabling electronic reporting of 100% of lab results), and 2) ensuring that EHR systems have the capability to accept structured lab data.</p> <p>The state and HealthInfoNet are addressing these two issues in the following ways: HealthInfoNet is in discussions with Quest and LabCorp to build interfaces to the HIE. HealthInfoNet will also map the proprietary codes to LOINC codes. With respect to EHR functionality, HealthInfoNet requires EHR vendors to have this functionality in order to participate in the exchange. As the REC, HealthInfoNet is also requiring vendors to have this functionality to be included on the preferred vendor list.</p> <p>All exchange participants will retain the option to maintain their own point-to-point connections to labs or receive lab results through HealthInfoNet.</p>
<u>Patient Care Summary</u>	Clinical summary documents are currently available to providers through the view-only portal of HealthInfoNet. These documents are linked to patient profiles on a provider's EHR system.	In addition to exchange services through the provider portal, HealthInfoNet will be providing for HISP services in 2012.



HIE Inventory

Standards		Quality Improvement	
Nationwide Health Information Network Exchange Specifications		Care Coordination	X
Nationwide Health Information Network CONNECT		Quality Reporting	
Nationwide Health Information Network DIRECT		Behavioral Health Information Exchange	
Plans to exchange with federal agencies or other states via Nationwide Health Information specifications	X		
Public Health		Lab Strategy	
Electronic lab reporting of notifiable conditions	X	Translation services	X
Syndromic surveillance	X	EHR interface	X
Immunization data to an immunization registry	X	Policy strategy	
Patient Engagement			
Patient Access/PHR	X	Order Compendium	
Blue Button		Bi-Directional	X
Patient Outreach	X	Alignment with CLIA	
Privacy and Security		E-Prescribing	
Privacy and Security Framework based on FIPS	X	Medication History	X
Individual choice (Opt In/Opt Out/hybrid)	Hybrid	Incentive or grants to independents	
Authentication Services	X	Plan for controlled substance	
Audit Log	X	Set goal for 100% participation	X
		Controlled substance strategy	
Administrative Simplification			
Electronic eligibility verification		Care Summaries	
Electronic claims transactions		Translation services	X
Vendor			
Planning		CCD/CCR Repository	X
Core Services	Orion	Directories	
	Initiate/IBM	Provider Directory	X
	Health Language Inc. (HLI)	Master Patient Index	X
		Record Locator Services	X
Plan Model			
Identified model(s)	Public Utility	Health Plan Directory	
		Directory of licensed clinical laboratories	

Information for this profile was obtained from the approved Operational and Strategic Plan submitted to the National Coordinator for Health Information Technology as a condition of the Health Information Exchange Cooperative Agreement. The complete plan can be downloaded at: <http://statehieresources.org/>



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 State Health Information Exchange Cooperative Agreement Program
<http://HealthIT.hhs.gov>
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