

Interoperability Framing EMS and Health Information Exchange California EMS/HIE Summit, 2014

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Office of the National Coordinator for Health IT

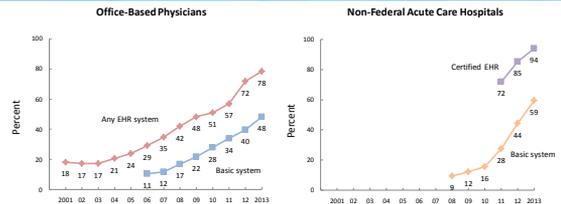
- **Formally:** The ability of a system or product to work with other systems/products without special effort on the part of the customer. Interoperability is made possible by the implementation of standards. (Institute for Electrical and Electronics Engineering)
- In simple terms: All individuals, their families, and their health care providers have appropriate access to health information that facilitates informed decision-making, supports coordinated health management, allows patients to be active partners in their health and care, and improves the overall health of our population.

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Health IT Adoption in the Current Care Delivery System *And why EMS needs to be integrated*



NOTES: EHR is electronic health record. "Any EHR system" is a medical or health record system that is either all or partially electronic (excluding systems solely for billing). Data for 2001-2007 are from in-person National Ambulatory Medical Care Survey (NAMCS) interviews. Data for 2008-2010 are from combined files, (in-person NAMCS and mail survey).
SOURCE: CDC/NCHS, National Ambulatory Medical Care Survey and National Ambulatory Medical Care Survey, Electronic Health Records Survey.

NOTES: Basic EHR adoption requires the EHR system to have a set of EHR functions defined in Appendix 1. A certified EHR is EHR technology that has been certified as meeting federal requirements for some or all of the hospital objectives of the CMS EHR Incentive Program. Possession means that the hospital has a legal agreement with the EHR vendor, but is not equivalent to adoption.
SOURCE: ONC/American Hospital Association (AHA), AHA Annual Survey Information Technology Supplement

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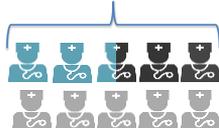
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In 2013, about one-third of physicians exchange different types of data



- Lab results: 36%
- Imaging reports: 34%
- Problem lists: 33%
- Medication lists: 34%
- Med allergy lists: 34%

In 2012, 5 in 10 received discharge summaries routinely; half of those received it electronically



ONC/NCHS analysis of NEHS 2012-2013

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51% able to query patient health information electronically



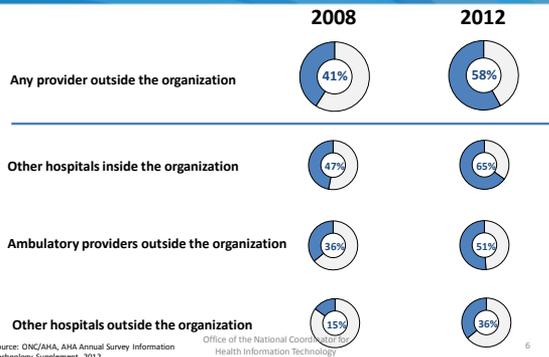
41% able to send and receive secure messages containing patient health information to and from external sources



SOURCE: Office of the National Coordinator for Health Information Technology, "U.S. Hospitals' Capability to Electronically Query Patient Health Information from Outside Their Organization and System," Health IT Quick-Stat, nos. 25 & 27, April 2014.

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Hospital Exchange With...



Source: ONC/AHA, AHA Annual Survey Information Technology Supplement, 2012

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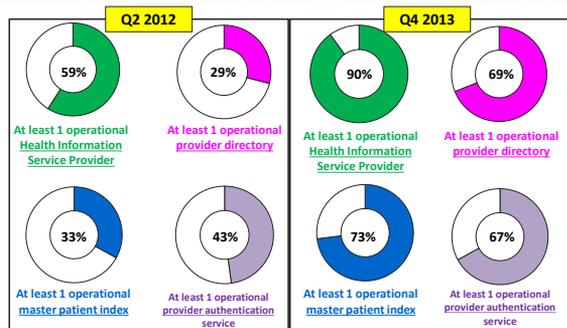
Community and State-based Exchange Infrastructure & Services

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State HIE Program: Operational Core Infrastructure Services



N = 51 states and DC; territories excluded.

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Public Health

- Most state* health departments accept electronic data aligned with MU measures:
 - 48 states are electronically receiving data for immunizations
 - 47 states are electronically receiving data for electronic lab reporting
 - 43 states are electronically receiving data for syndrome surveillance
 - 36 states are electronically receiving data for cancer

As of October 8, 2014

*N=51 (all states + District of Columbia)

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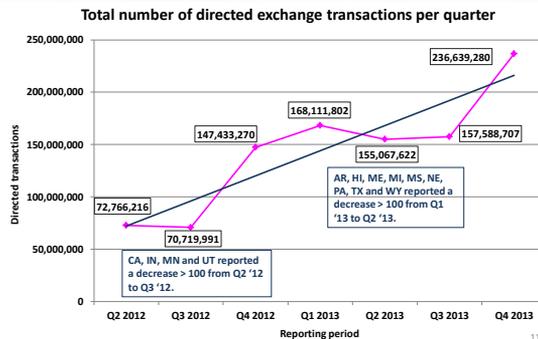
Transactions

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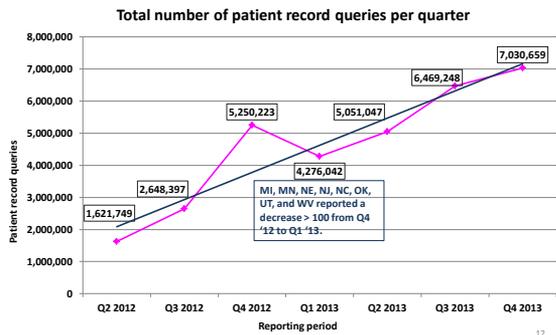
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State HIE Program: Quarterly Directed Exchange Transactions



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State HIE Program: Quarterly Patient Record Queries



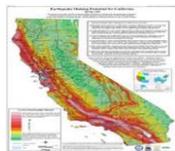
Expanding Ecosystem

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New Technologies & Use Cases



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Discussion

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