

National Health Information Exchange and Interoperability Landscape

Health Information Exchange Activity

- Office-based Physicians & Hospitals
 - Overall Trends and Patterns
 - By Type of Data and Transitions
- Individuals
- State HIE Program Grantees



Key Takeaways

Baseline prior to Stage 2 of Meaningful Use shows variation in exchange activity and capability:

- Physician exchange activity with outside providers was limited in 2013.
- Hospital exchange activity has grown significantly since 2008.
- Exchange of data during transitions is limited for hospitals and physicians, as evidenced by survey data and early Stage 2 MU data.
- A significant number of individuals experience gaps in information sharing though a significant portion of individuals who obtain access to their health information do view, download and share their data.
- State HIE grantees report increased capabilities for query-based and directed exchange, as well as increased ability to support exchange through the provision of key services.

Data show growth in exchange capability and activity, but also show there is substantial room for improvement. Interoperability measurement will be a key focus going forward.

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Data Sources

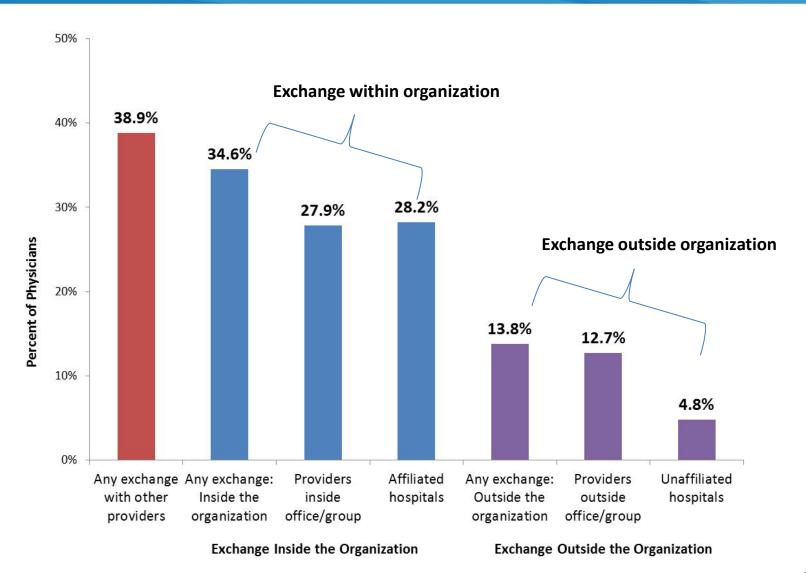
- Meaningful Use data
- National survey data
 - National Electronic Health Record Survey
 - NCHS Workflow survey
 - AHA Health IT Supplement
 - ONC Survey of Clinical Laboratories
- Self-reported data by State HIE program grantees

Health Information Exchange Activity

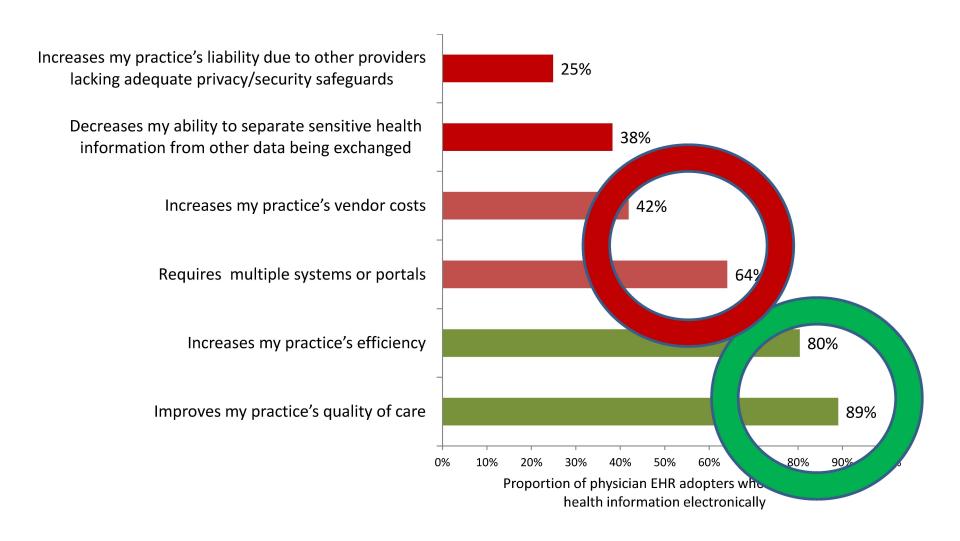
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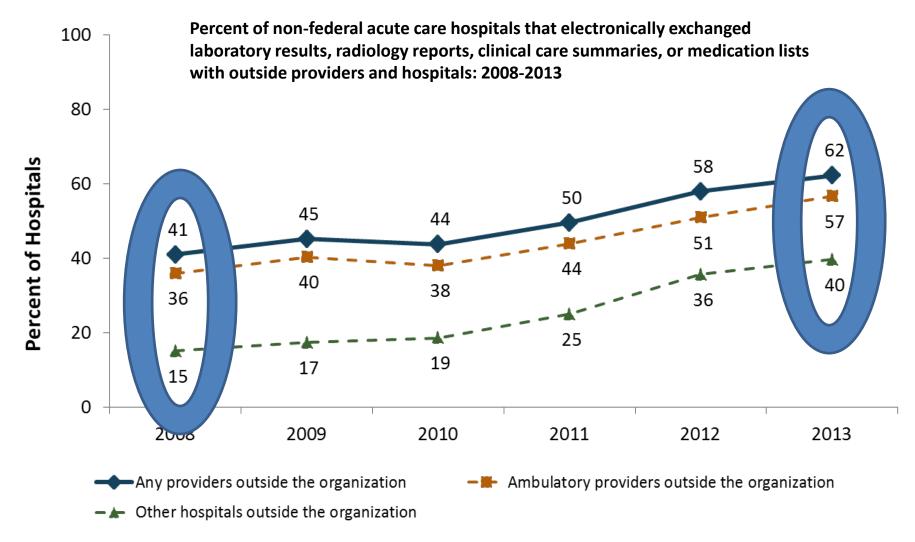
Prior to Stage 2 Meaningful Use, 4 in 10 physicians electronically exchange- however outside exchange is limited



Majority of physicians who electronically exchange data with other providers report quality and efficiency benefits



Hospital exchange with outside providers has grown significantly since 2008



Prior to Stage 2, 40-50% of hospitals had the capability to query and send secure messages

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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Baseline prior to Stage 2 indicates electronic exchange of different types of data was limited, including during transitions

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



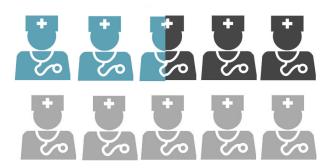
Lab results: 36%

• Imaging reports: 34%

• Problem lists: 33%

Medication lists: 34%

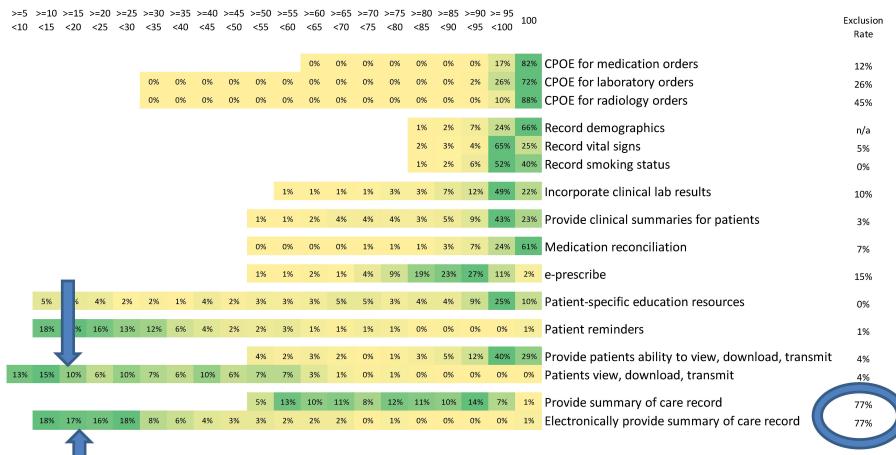
Med allergy lists: 34%



In 2012, 5 in 10 receive discharge summaries routinely, but only 25% receive it electronically

Lower performance on summary of care and VDT Stage 2 core measures compared to other Stage 2 Measures, as of May 2014



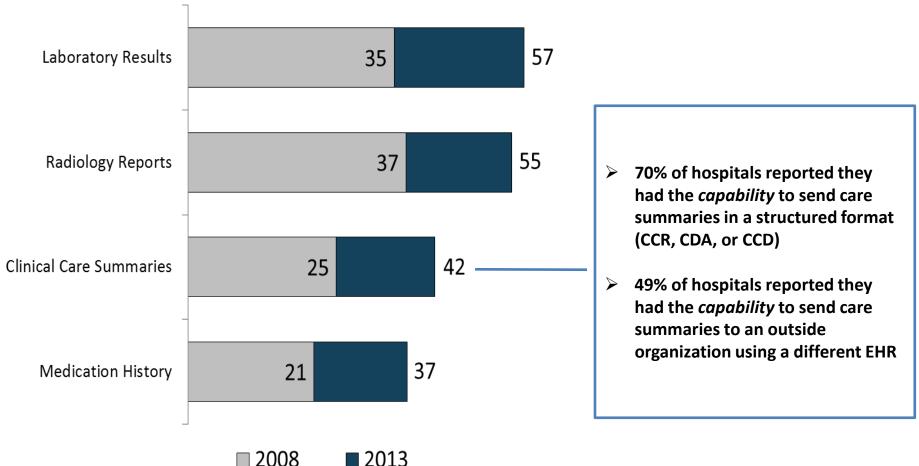


Based on 474 eligible professionals attesting as of May 30, 2014

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Prior to Stage 2, hospital exchange with outside providers varied by type of data

Percent of non-federal acute care hospitals that electronically exchanged data with outside providers or hospitals, by data type: 2008-2013

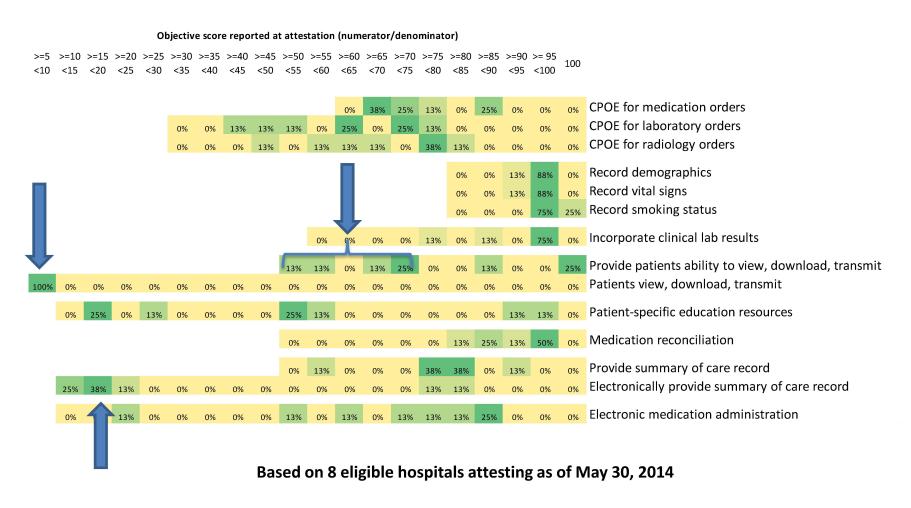


SOURCE: Swain M, Charles D, Furukawa MF. "Health Information Exchange among U.S. Non-federal Acute Care Hospitals: 2008-2013." *ONC Data Brief, no 17*, May 2014.

ONC. 'U.S. Hospital Adoption of Computerized Capabilities to Meet Meaningful Use Stage 2 Objectives,' Health IT Quick-Stat, no. 23. April 2014 ONC analysis of AHA Health IT supplement, 2013.

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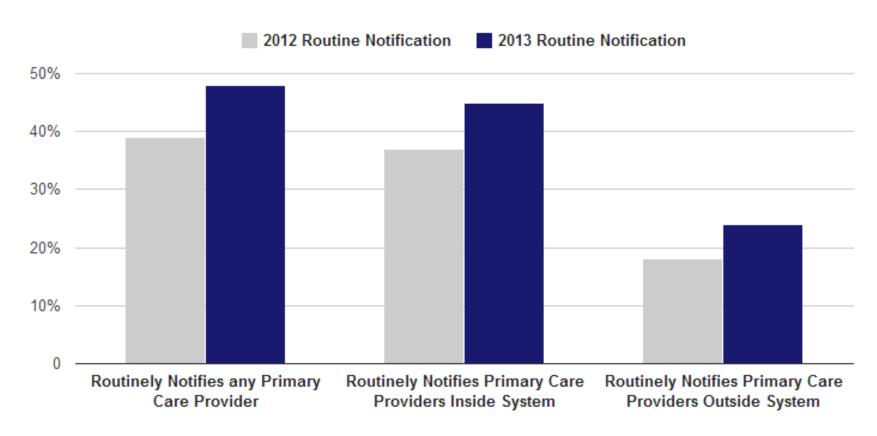
Distribution of core objective scores among eligible hospitals attesting to Stage 2 as of May 2014



Almost half of hospitals send ED notifications—though primarily to affiliated PCPs

Percent of U.S. Hospitals that Routinely Electronically Notify Patient's Primary Care Provider upon Emergency Room Entry

2012 - 2013



Health Information Exchange Activity

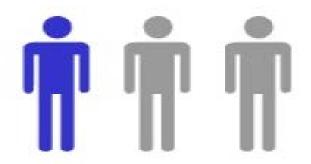
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Individuals are consistently experiencing gaps in information exchange

Similar patterns in 2012

Approximately 1 in 3 individuals experienced at least one gap in health information





Provide medical history again because provider hadn't gotten records from another provider



Bring the results of medical exam/test result to a doctor



Wait longer than reasonable for the results of a test

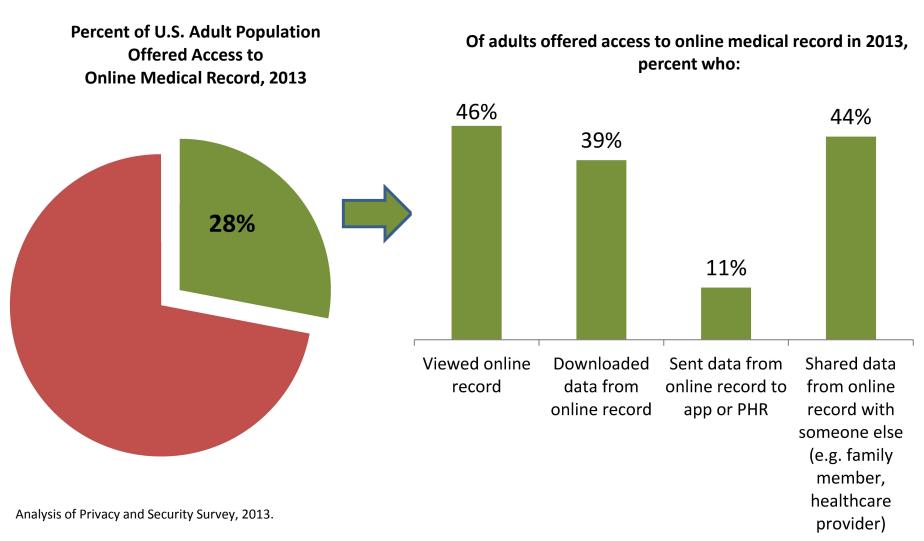


Redo a test or procedure because no longer available



Had to provide medical history again because chart could not be found

Among the 28% of the U.S. adult population given access to their online medical record, almost half viewed their information.

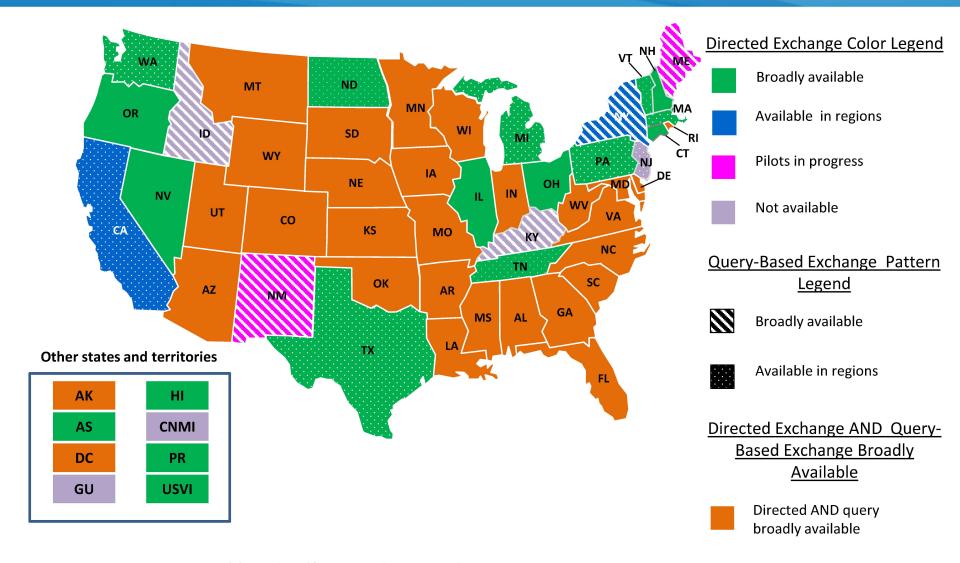


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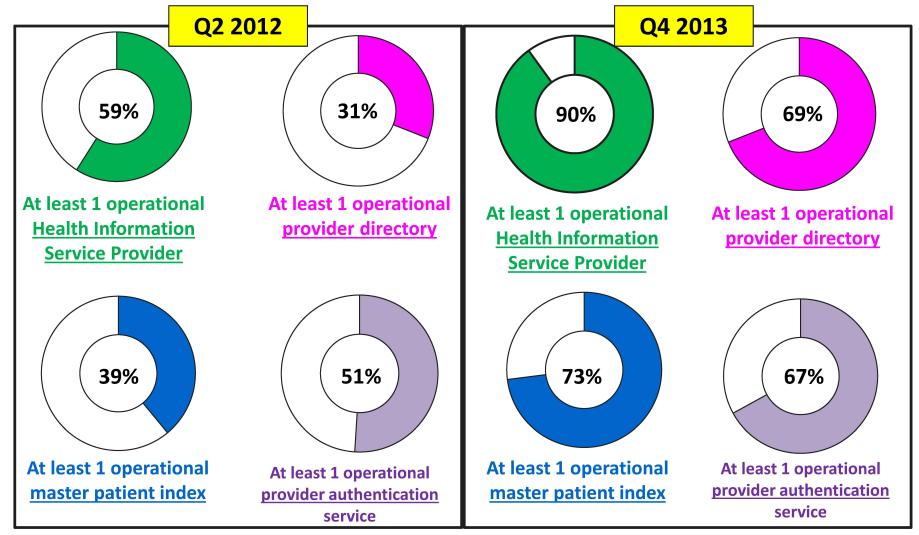


Directed and Query-based exchange broadly available in 28 states and Washington, DC as of Q4 2013



Data Source: State HIE Dashboard, self-reported grantee data

Operational HIE Core Infrastructure Services grew across 50 states and Washington, DC



N = 51; territories excluded. Self-reported grantee data

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- Measures to date have largely focused on HIE rather than interoperability
- Discussions are underway regarding future measurement linked to ONC's strategic vision going forward that may include monitoring:
 - transactions, adoption of standards, availability of services that enable HIE

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Additional updates

Lab Interoperability

Labs

67% have capability to send structured lab results to EHR; among these, 80% actually sent structured lab results to an EHR.

58% of test results were sent to EHR using a structured format.

Physicians

47% have capability to incorporate structured lab results into EHR

Hospitals

93% incorporate structured lab results for more than 40 percent of patients admitted to inpatient or ED.

HIE capabilities across the continuum: Limited information on capabilities

Long-Term Care Providers

NCHS plans to release results later this year for 2012 HIE capabilities of Residential Care Communities and Adult day services centers

Behavioral Healthcare Providers

25% able to exchange key clinical information with other providers

28% of BH provide summary of care record for transitions of care