

The Office of the National Coordinator for
Health Information Technology



Overview of Health IT in Nebraska: Data to Inform and Improve Performance

Office of Economic Analysis, Evaluation and Modeling
&
State HIE Program

December 2011

Putting the **I** in **HealthIT**
www.HealthIT.gov



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Questions?

- Please contact your project officer with any questions.

Overview of the Data

National and state data on:

Health information exchange

Capacity to exchange

Active exchange

Exchange what types of data?
(e-Rx, lab data, care summaries)

Exchange with who?
(physicians, hospitals, pharmacies, labs, patients)

EHR adoption

Adoption of a basic EHR

Intent to apply for
Meaningful Use

Goals of the “Chartpacks”: A Tool for States

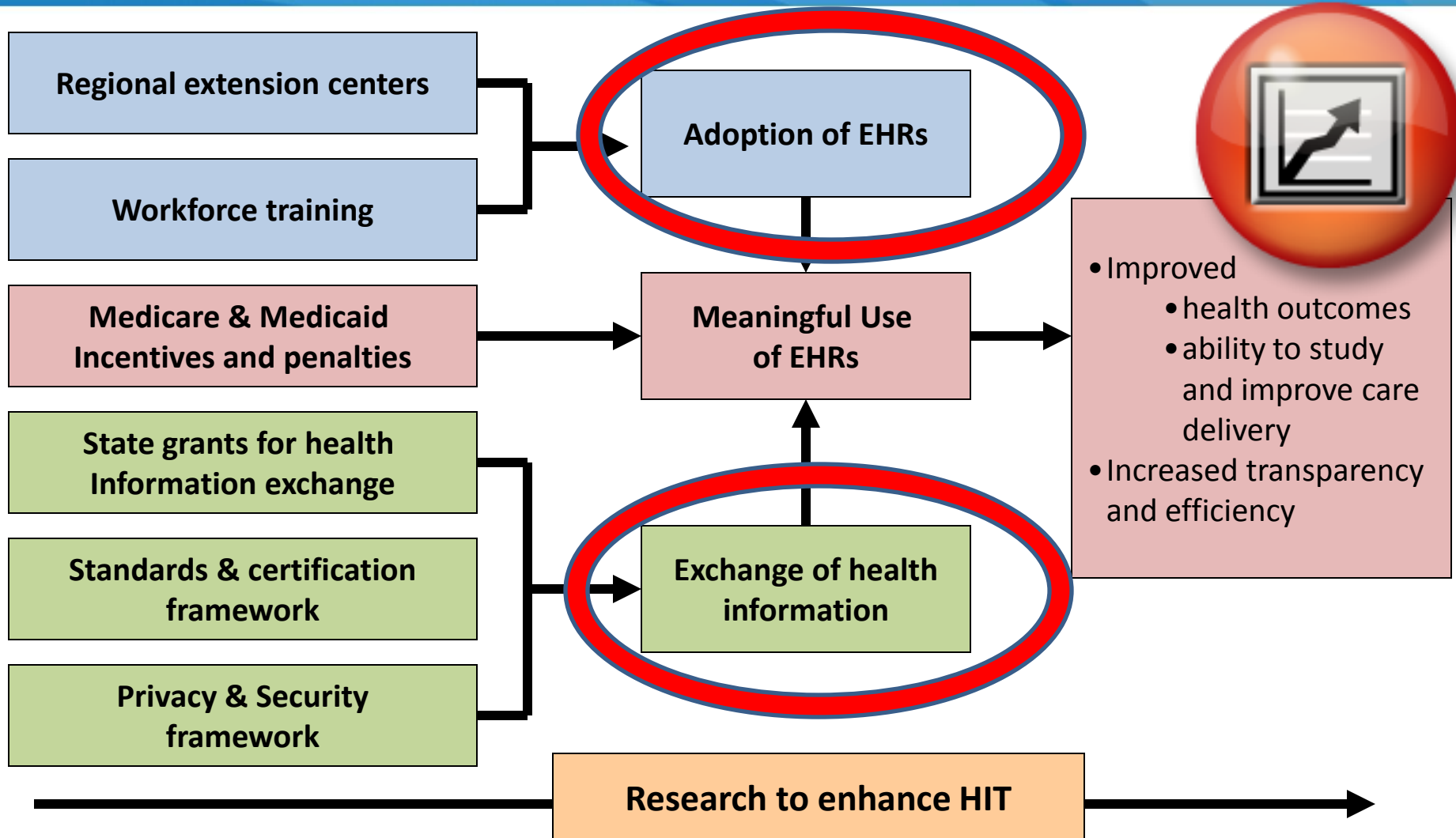
Provide a snapshot of current levels of HIE/HIT capacity and activity underway

Assess trends over time



Help identify gaps as well as areas of strength

Why Chartpacks?



- ONC acquired potential indicators of HIT adoption and use from 3 major sources:
- **National Ambulatory Medical Care Survey (NAMCS) EMR Supplement:**
 - The National Center for Health Statistics conducts this survey of physicians who work in ambulatory care settings annually by mail.
 - Starting in 2010, the sample size was increased so we could generate state-level estimates.
- **American Hospital Association (AHA) survey Health IT Supplement:**
 - The American Hospital Association administers this annual survey of hospitals CIOs online and by mail. We report on non-federal acute care hospitals.
- **Surescripts:**
 - A leading e-prescription network, Surescripts provides the highest quality representative sample of e-prescribing by providers and pharmacies in the United States.

Potential Indicators of HIT/HIE Capacity and Activity

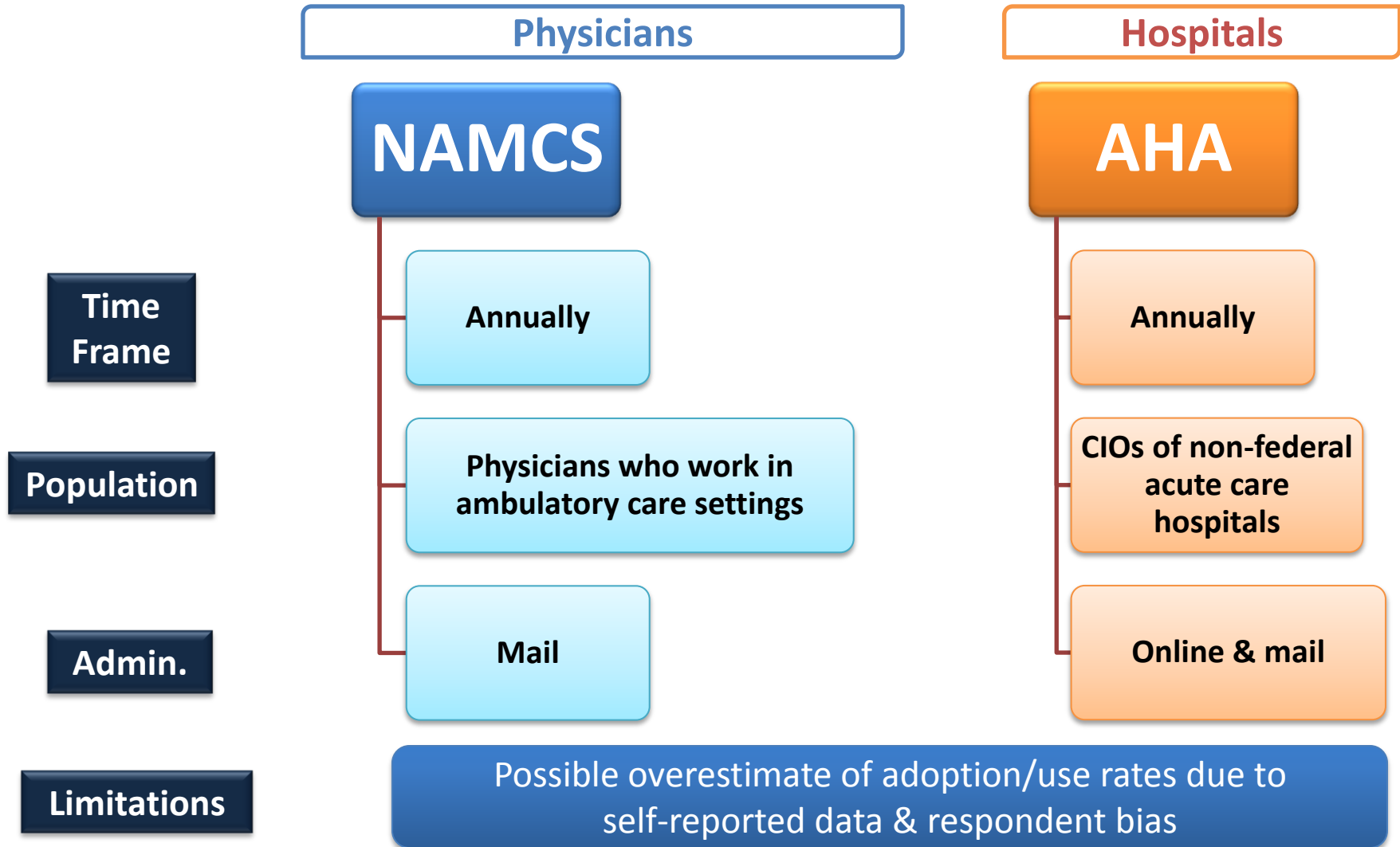
Data Source	EHR adoption	Labs	eRX	Care Summary	Consumer	State Level Estimates
NAMCS	X	X		X**	X**	X
AHA (Hospital)	X	X		X	X	X*
Surescripts			X			X

*Generation of State-Level estimate depends upon sample size and response rate.

**2011 data only will be available later this year.

ONC's Current Data Sources

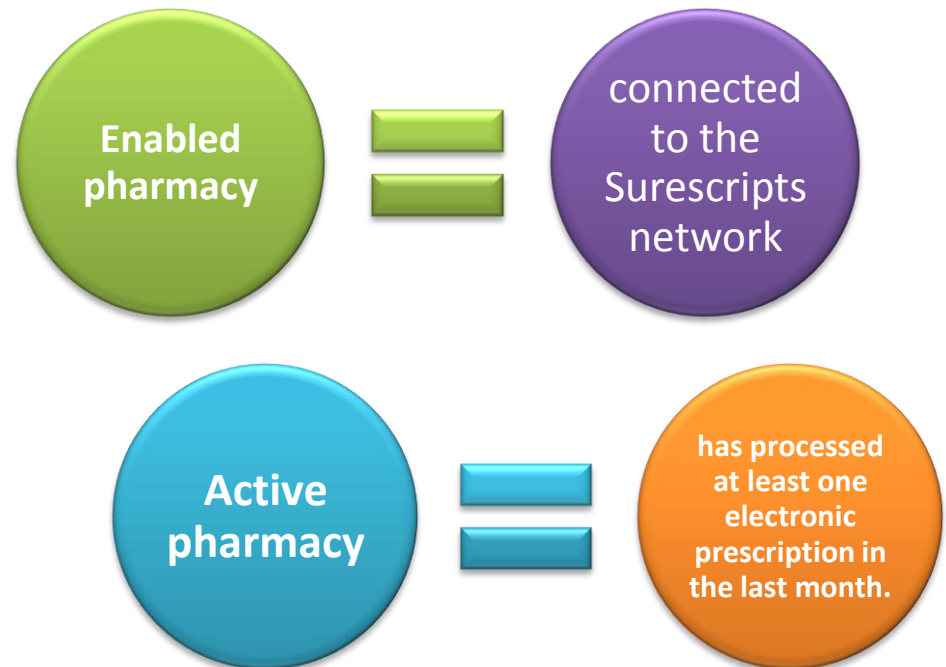
Provider Surveys



Surescripts, a leading e-prescription network, provides the highest quality representative sample of e-prescribing in the United States.

Data on providers and pharmacies are available **quarterly**.

Market presence may vary in certain territories/states.*



*Please report pharmacies that are on a different network to your project officer

Data Strengths and Limitations

Source	Strengths	Limitations
NAMCS	<ul style="list-style-type: none"> • Oversampling to generate state-level estimates • Administered by NCHS • High response rate 	<ul style="list-style-type: none"> • Self-reported • Non-responder bias
AHA	<ul style="list-style-type: none"> • High response rate • Respondent is the hospital CIO 	<ul style="list-style-type: none"> • Self-reported • Non-respondent bias • No oversampling
Surescripts	<ul style="list-style-type: none"> • Geographic scope of more than 92% of all pharmacies nationwide • Large sample size • Zip code level data • Includes both nurse practitioners and physicians 	<ul style="list-style-type: none"> • Coverage varies by state • Denominator not supplied

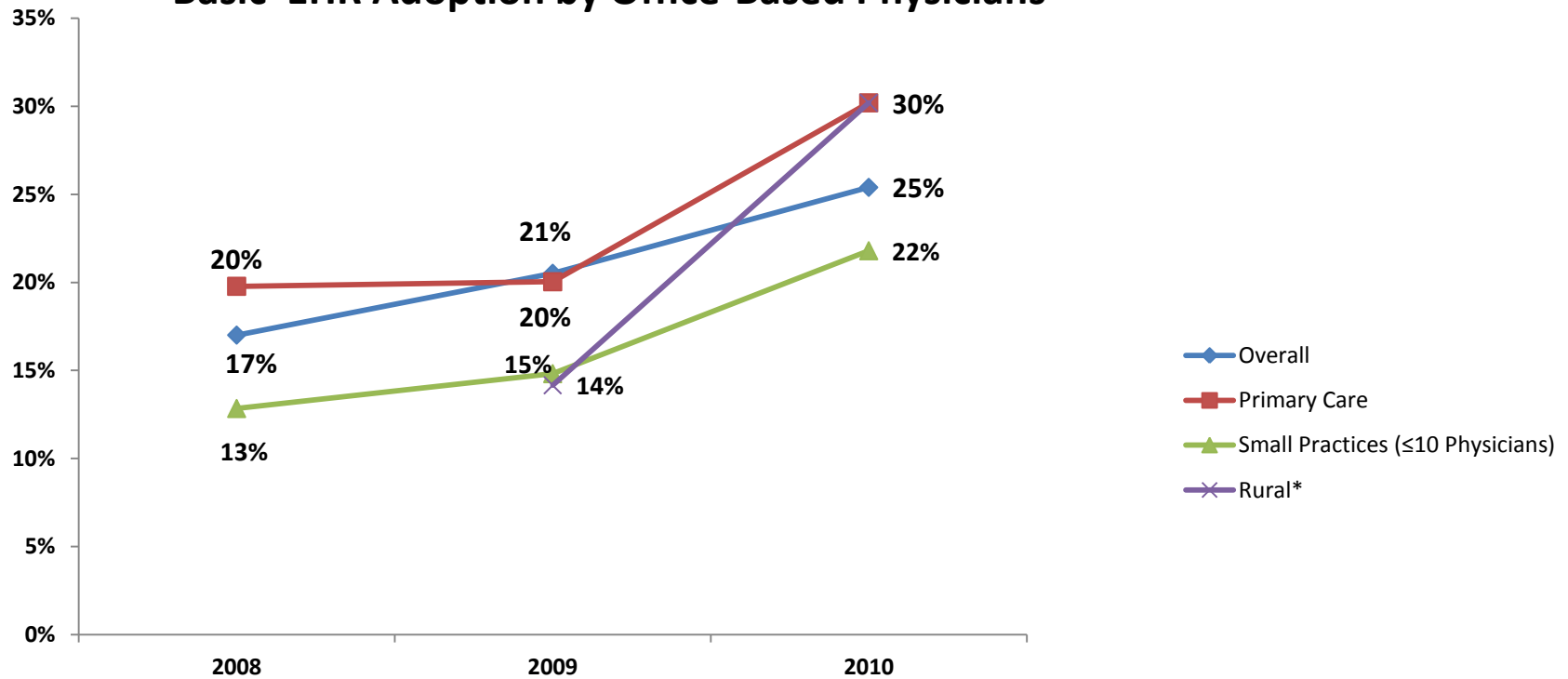
Over-estimation of HIT adoption

Due to small sample sizes, in some cases we may not be able to generate reliable state-level estimates. When the Relative Standard Error is high, it is considered an unreliable estimate and will be indicated with either an asterisk or the data will not be shown.

NAMCS Chart Packs

National Trends: Physician EHR Adoption

'Basic' EHR Adoption by Office-Based Physicians



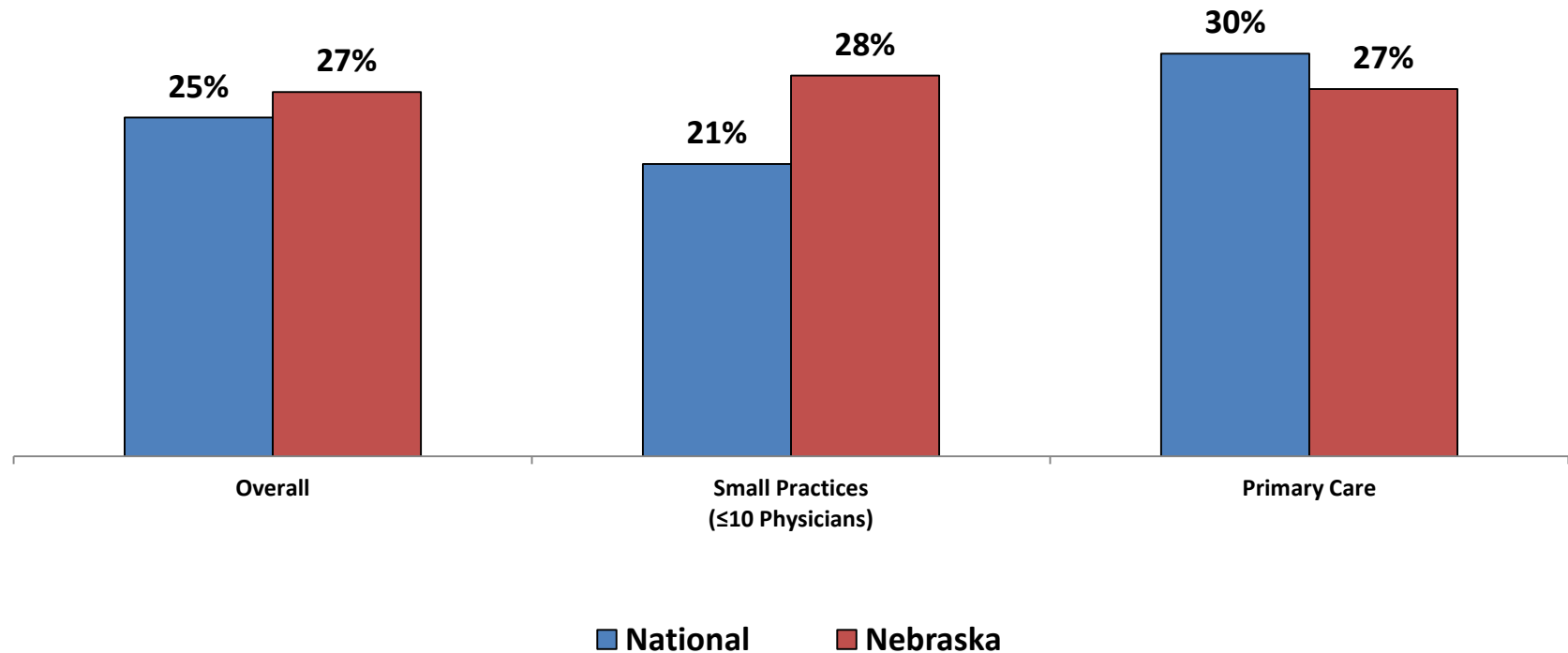
Source: NAMCS, 2008-2010

*Rural = Non-Metropolitan

Rural estimates not shown for 2008 because >30% relative standard error

How does your State Compare to National Estimates?

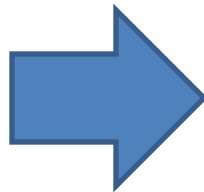
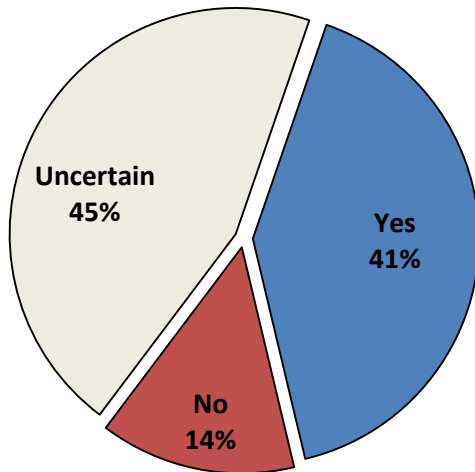
Proportion of Office-Based Physicians that have Adopted a 'Basic' EHR



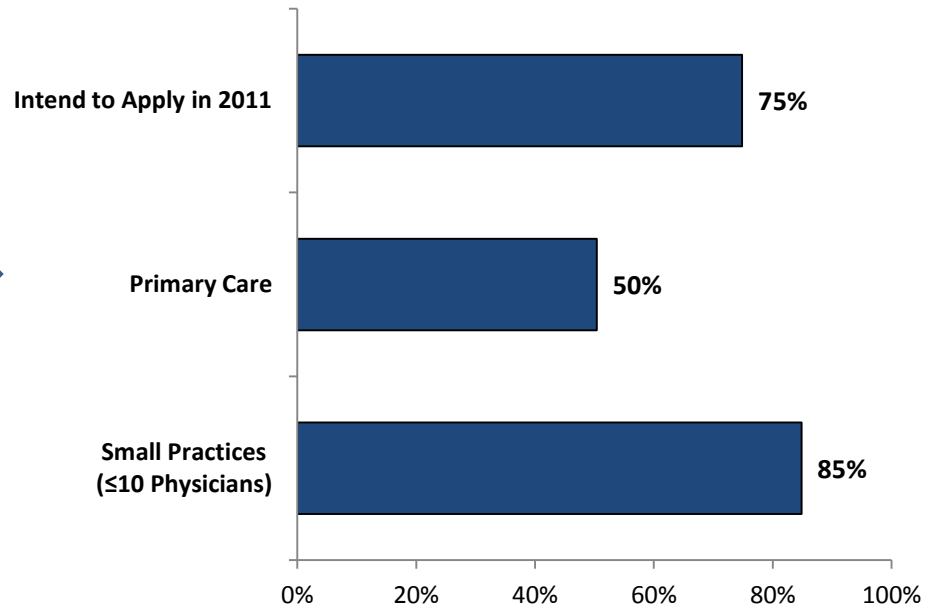
Nationwide: Physician Meaningful Use Intent



Overall MU Intent for Office-Based Physicians in the Country

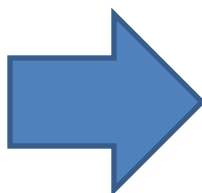
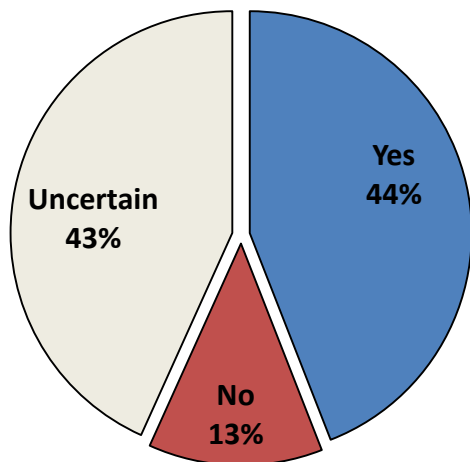


MU Intent for Key Physicians

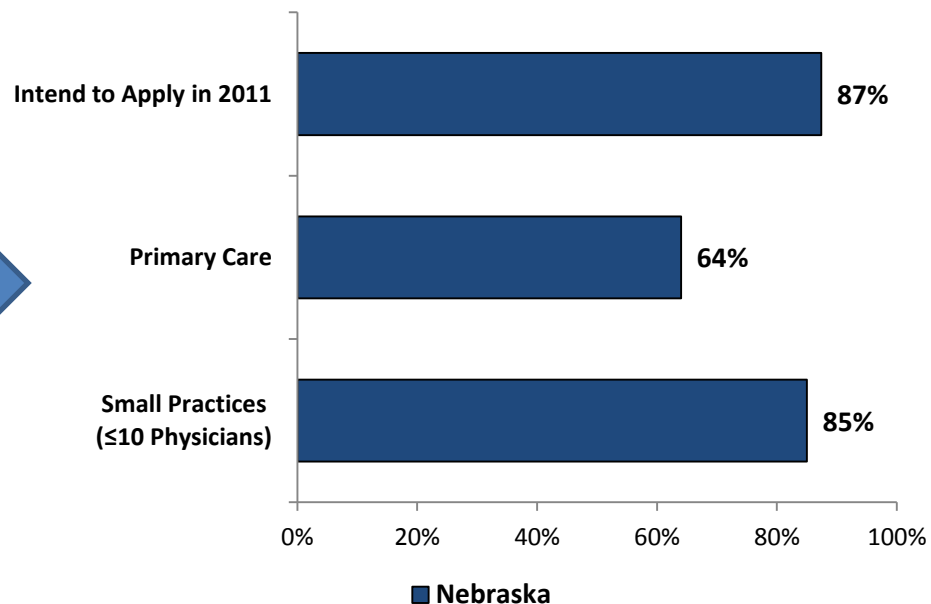




Overall MU Intent for Office-Based Physicians in Nebraska



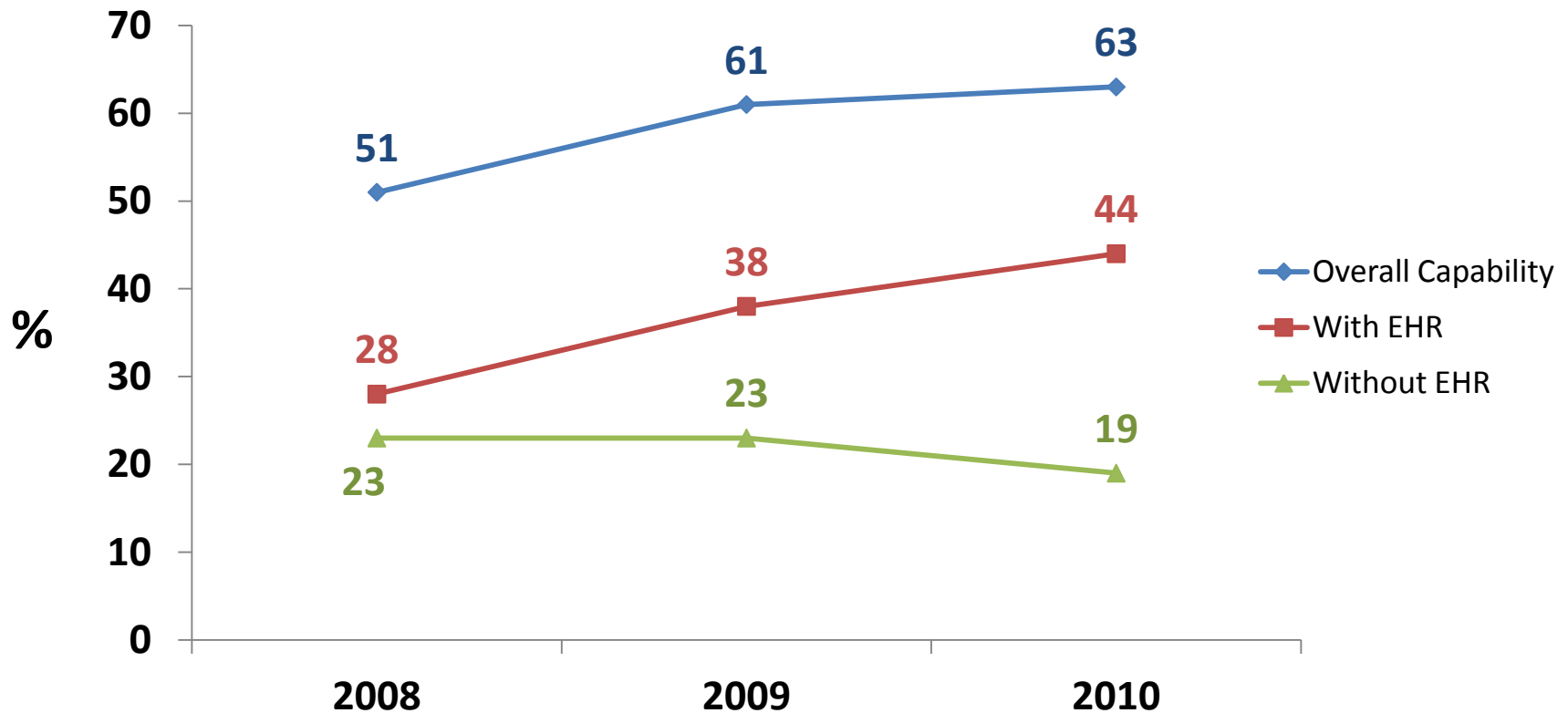
MU Intent for Key Physicians



National Trends: Physicians Viewing Lab Results Electronically

PIN
Priority

Proportion of Office-Based Physicians with the Capability: View Lab Results Electronically



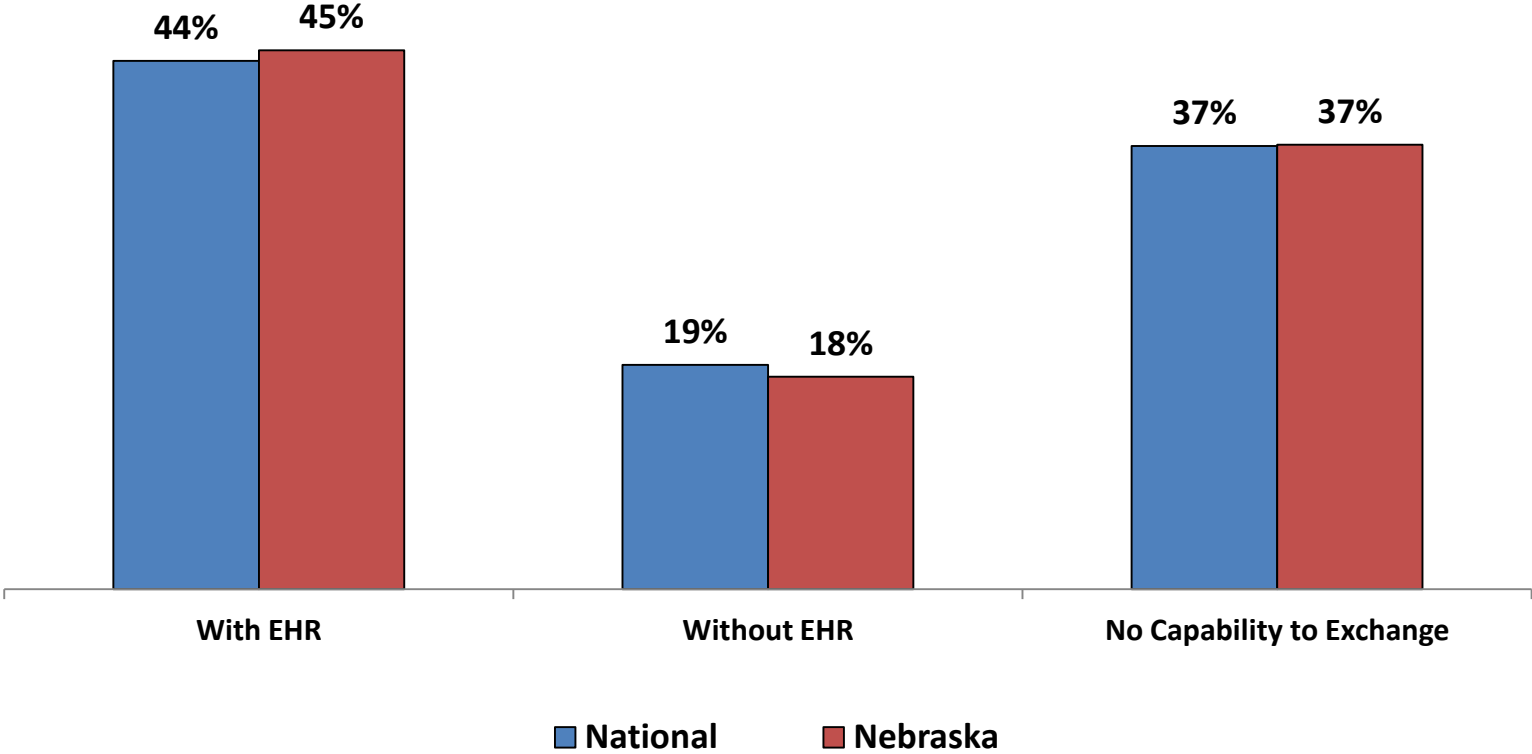
Source: NAMCS, 2008-2010

"EHR" defined by those who report having any EHR

How does your state compare to national estimates?



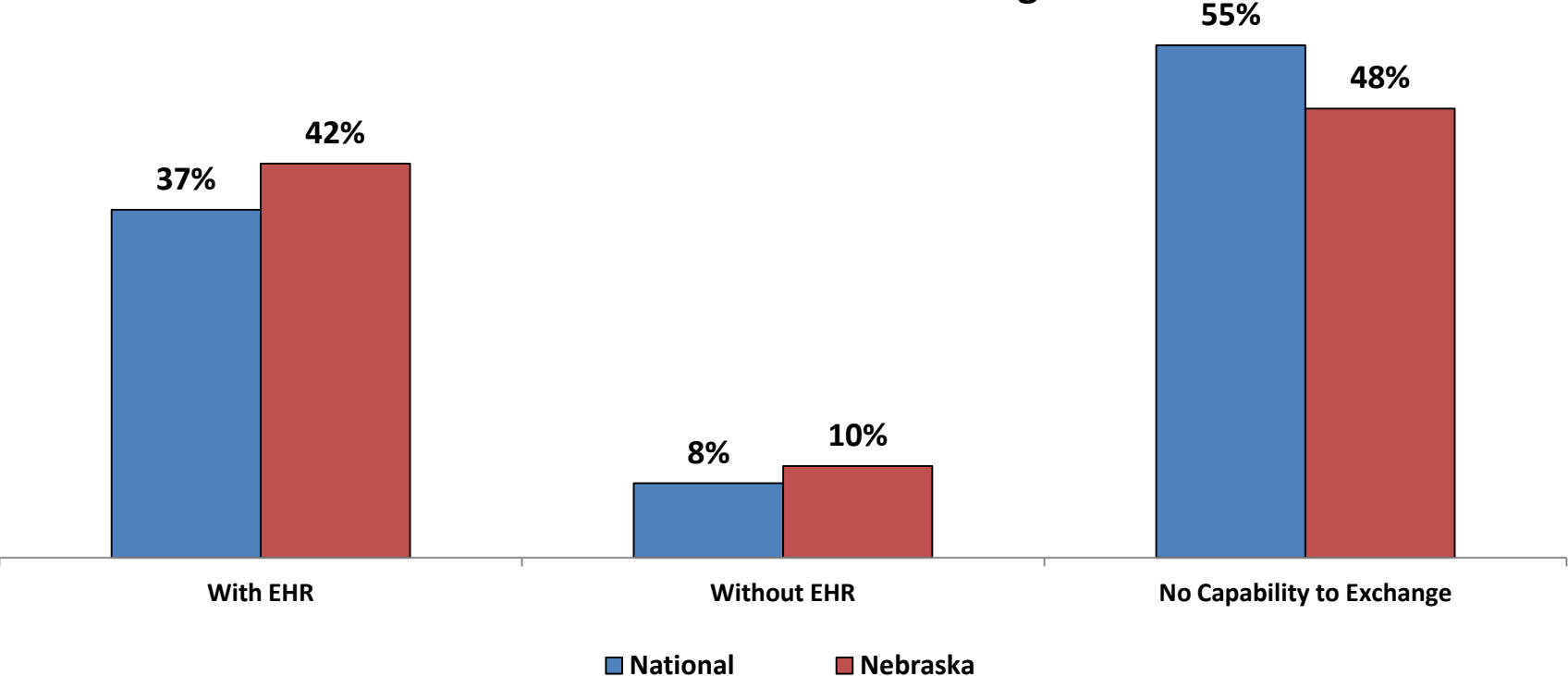
Office-Based Physicians Capability: Viewing Electronic Lab Results



Source: NAMCS, 2010
"EHR" defined by those who report having any HER

How does your state compare to national estimates?

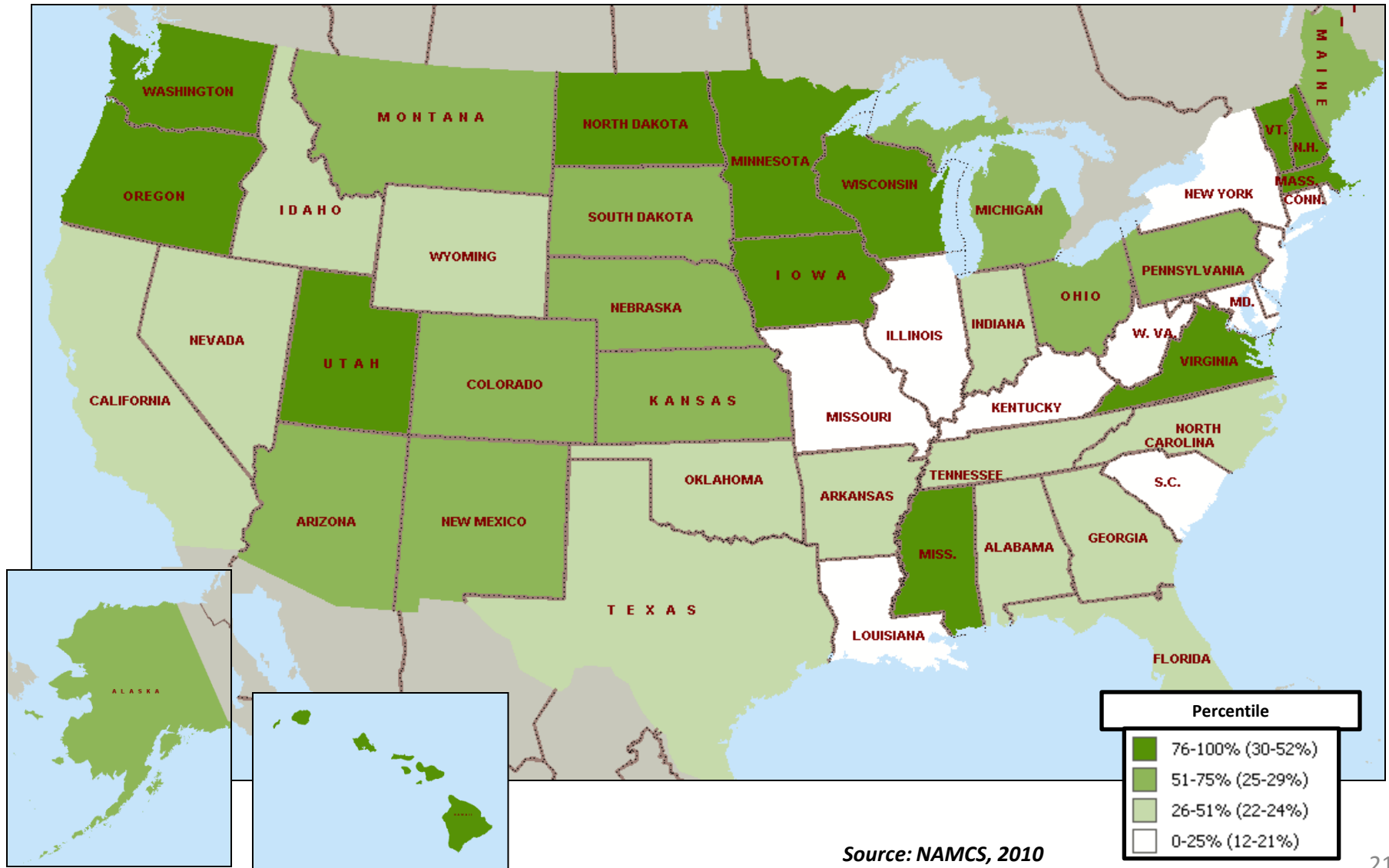
Office-Based Physicians Capacity: Electronic Lab Test Ordering



Source: NAMCS, 2010
"EHR" defined by those who report having any EHR

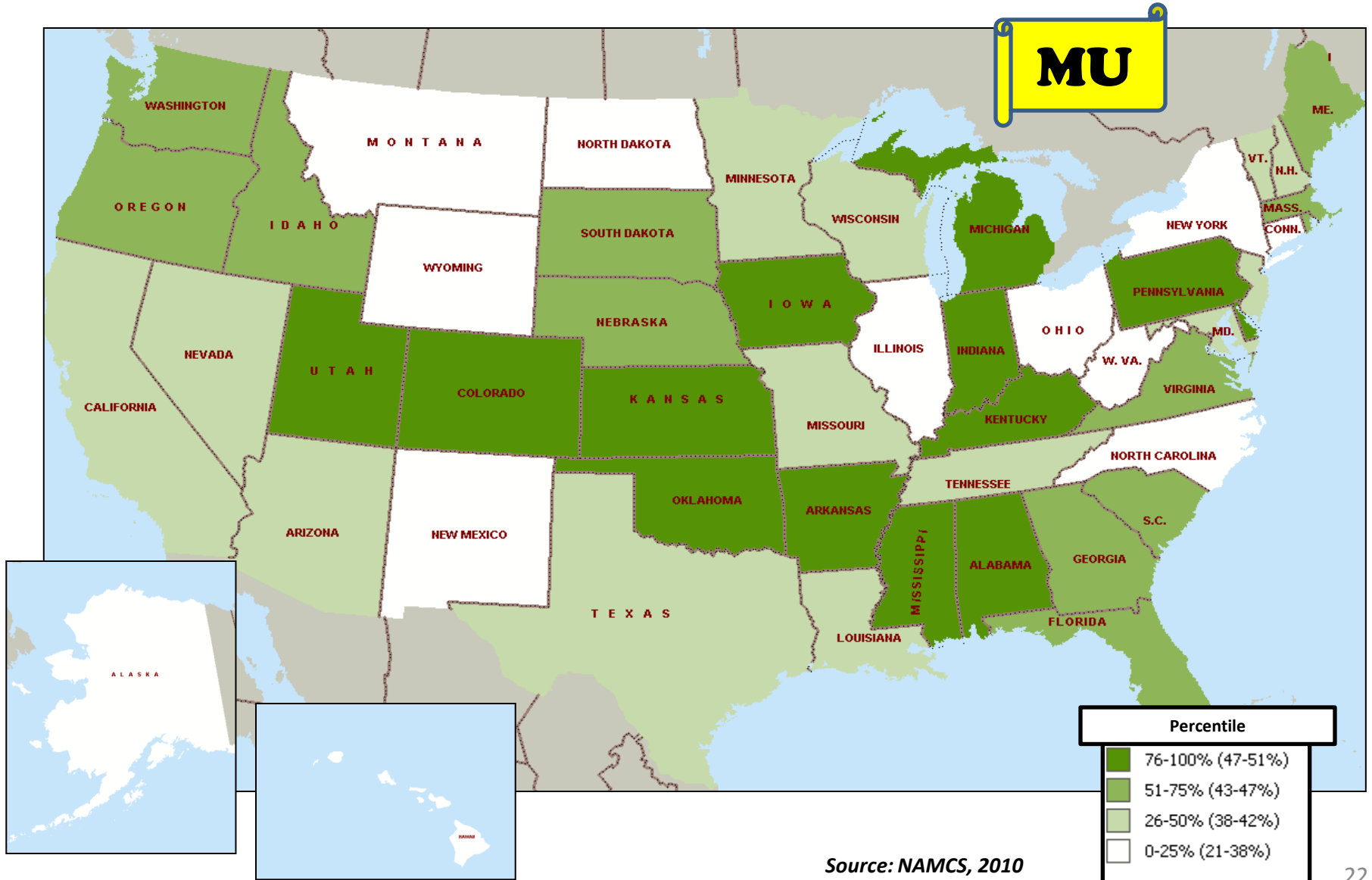
Nationwide Comparisons

Statewide Estimates: Physician EHR Adoption

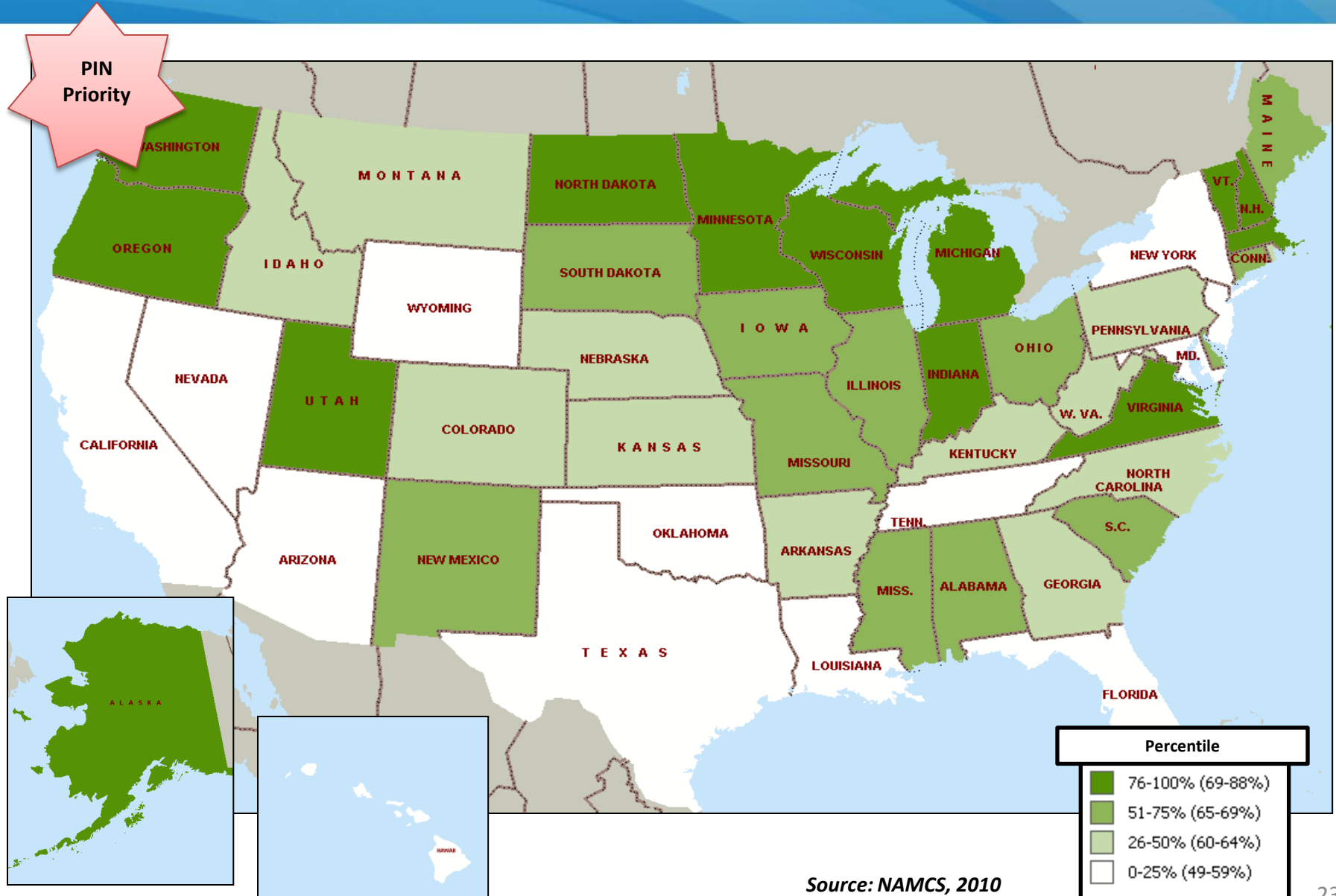


Source: NAMCS, 2010

Statewide Estimates: Physician Intent to apply for Meaningful Use



Statewide Estimates: Physicians Viewing Lab Results Electronically

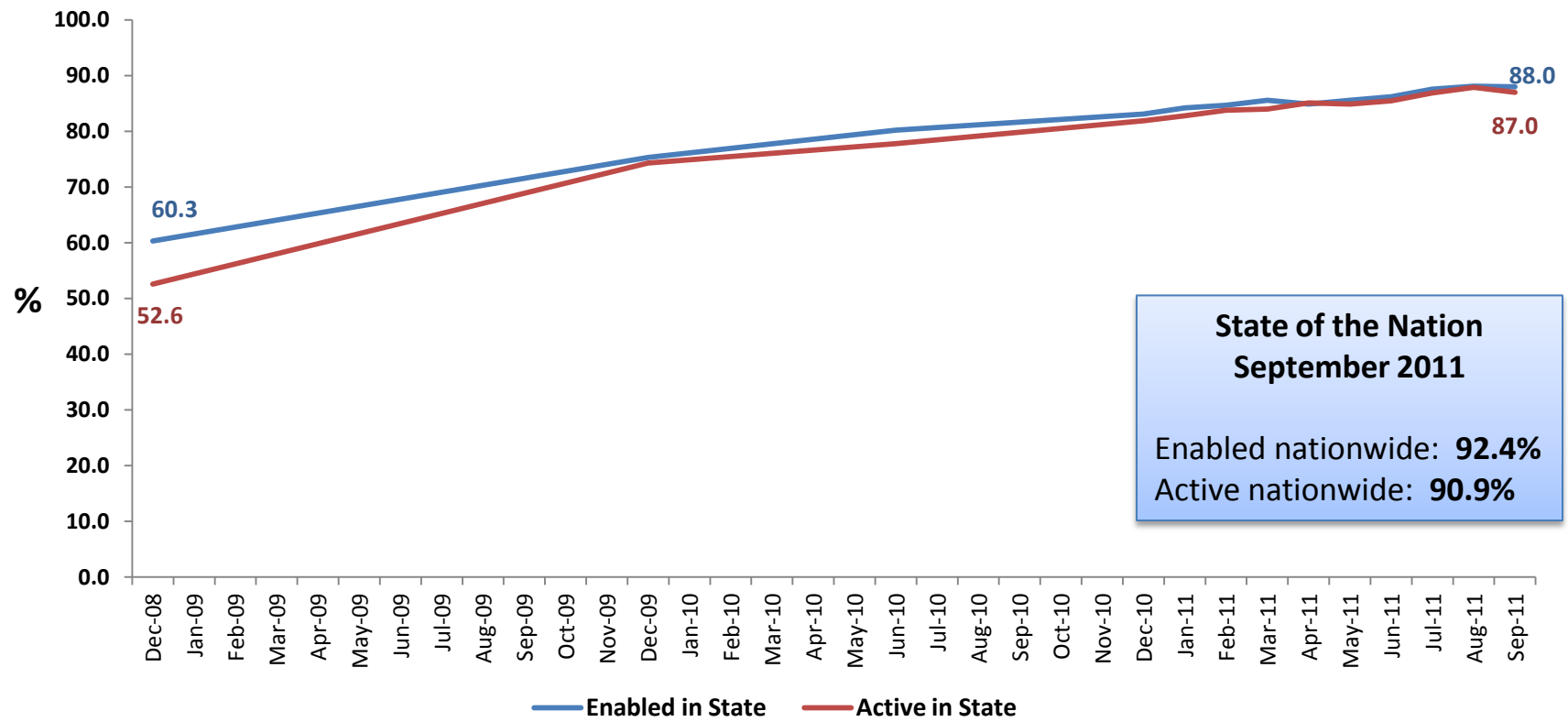


Measures of ePrescribing

How does your State Compare to National Estimates?



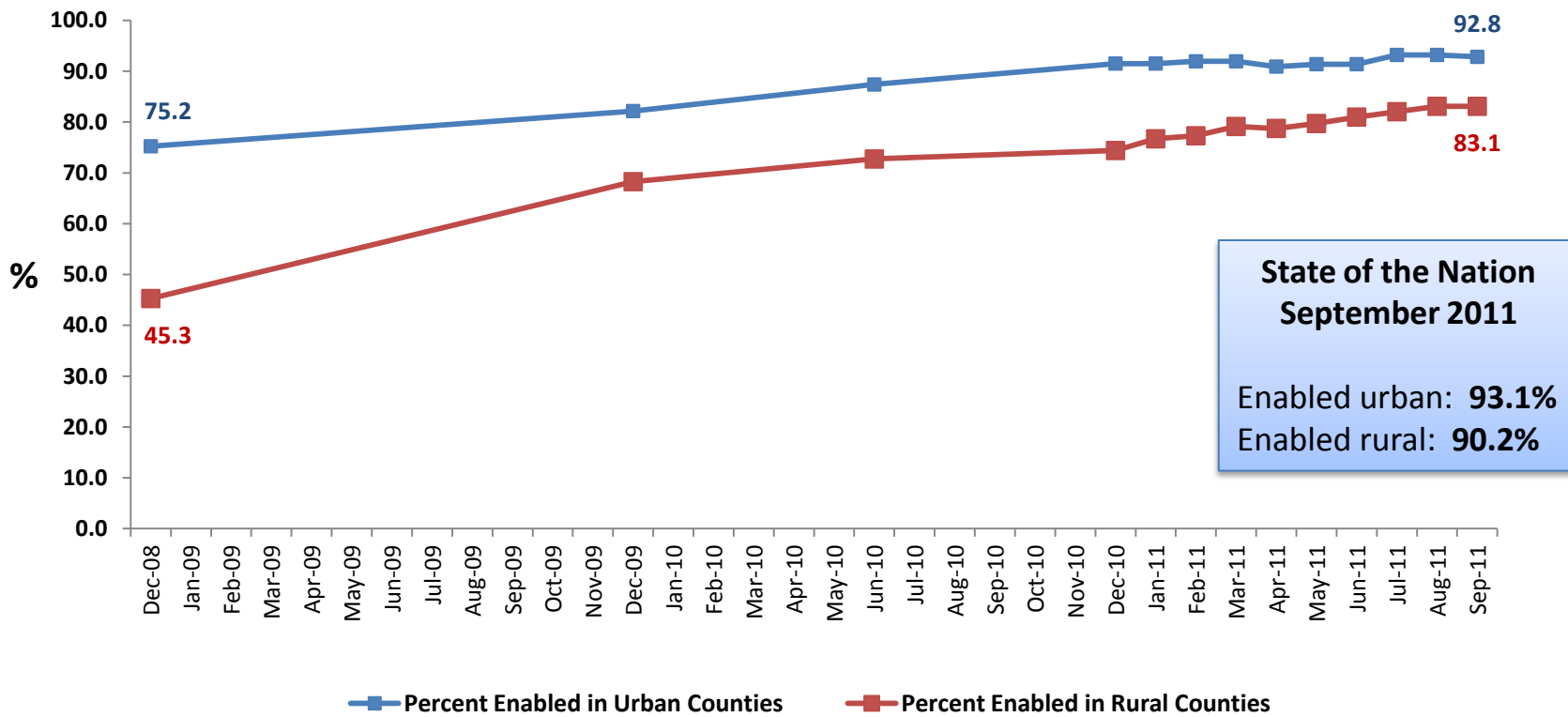
Percent of Retail Community Pharmacies Enabled to e-Prescribe and Actively e-Prescribing on the Surescripts Network in Nebraska



Data Source: Surescripts

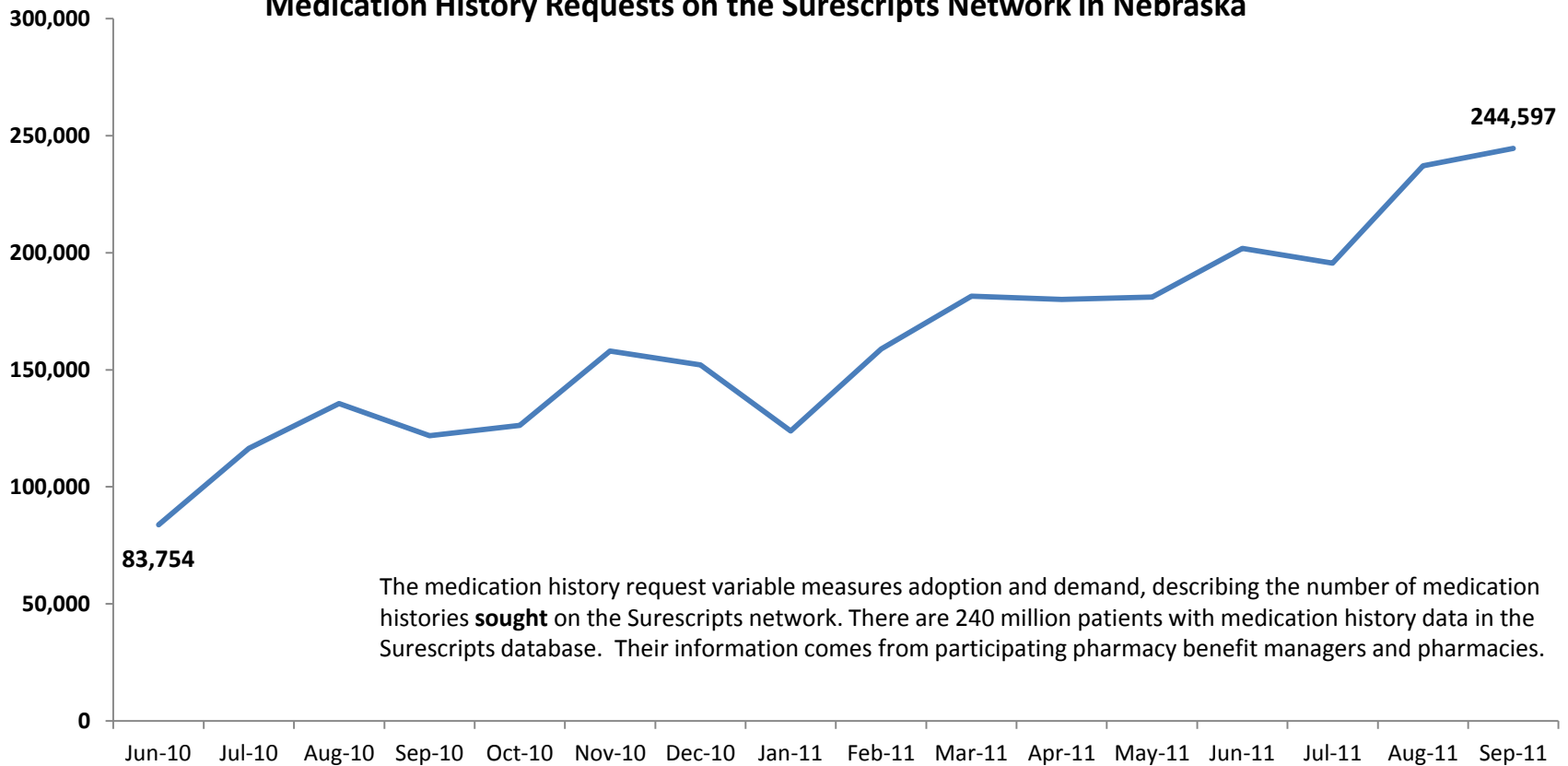
Surescripts Connectivity: Urban vs. Rural Pharmacies

Percent of Retail Community Pharmacies Connected to the Surescripts Network in Urban and Rural Counties in Nebraska



Data Source: Surescripts

Medication History Requests on the Surescripts Network in Nebraska

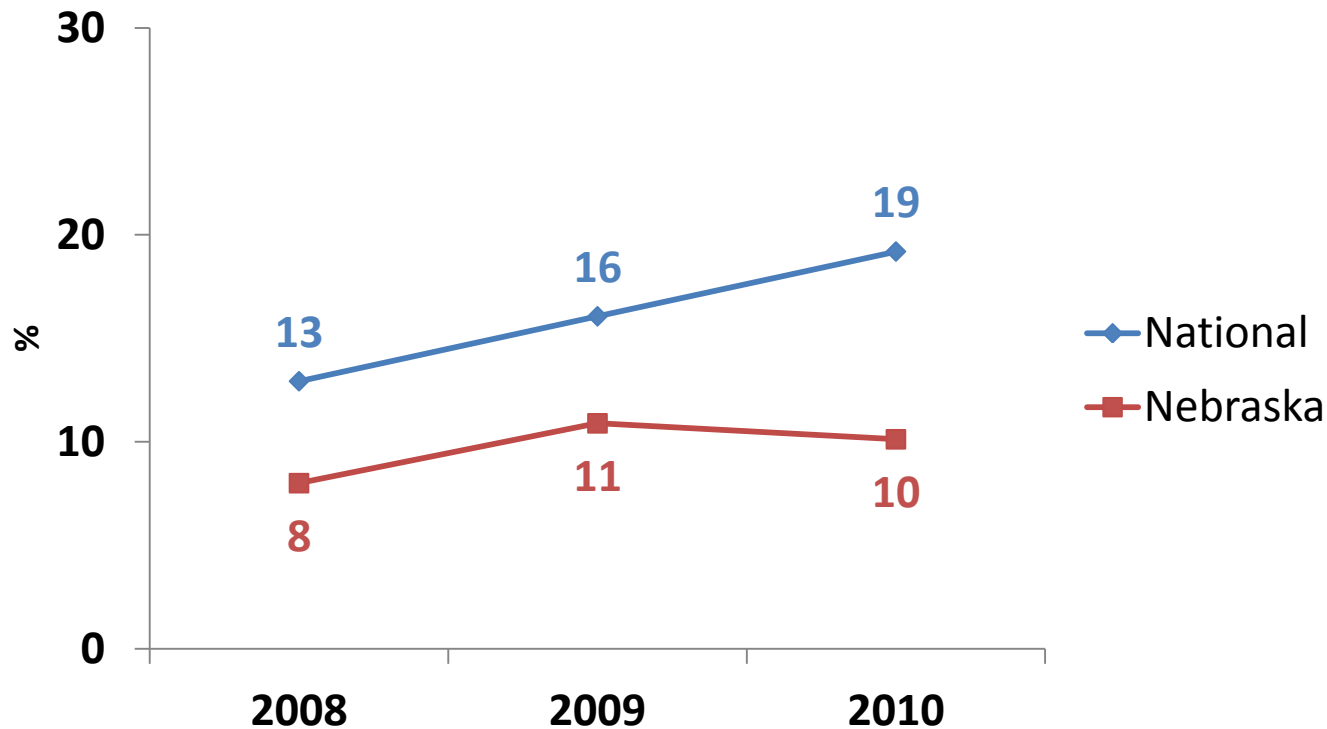


The medication history request variable measures adoption and demand, describing the number of medication histories **sought** on the Surescripts network. There are 240 million patients with medication history data in the Surescripts database. Their information comes from participating pharmacy benefit managers and pharmacies.

AHA Data

How Does Your State Compare to the National Estimates?

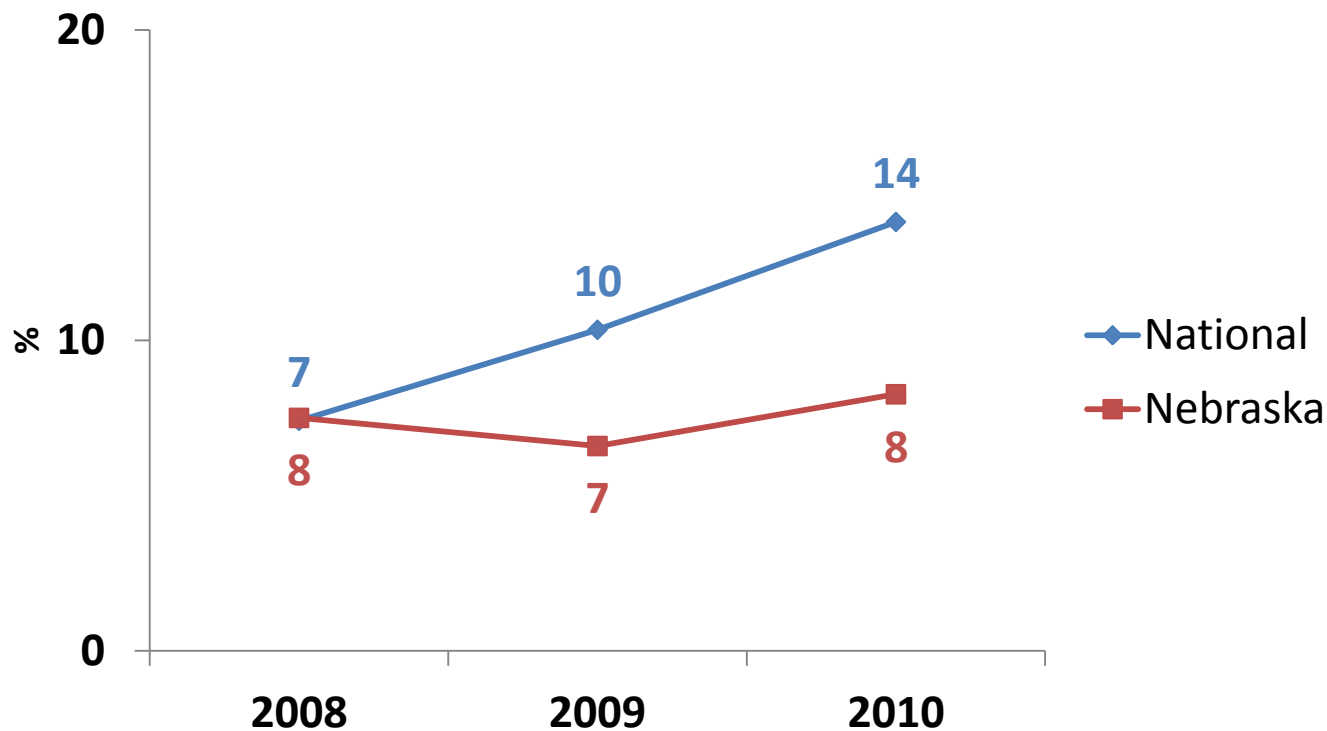
Adoption of (Basic) EHRs by All Hospitals



Data Source: AHA Hospital Survey

How Does Your State Compare to the National Estimates?

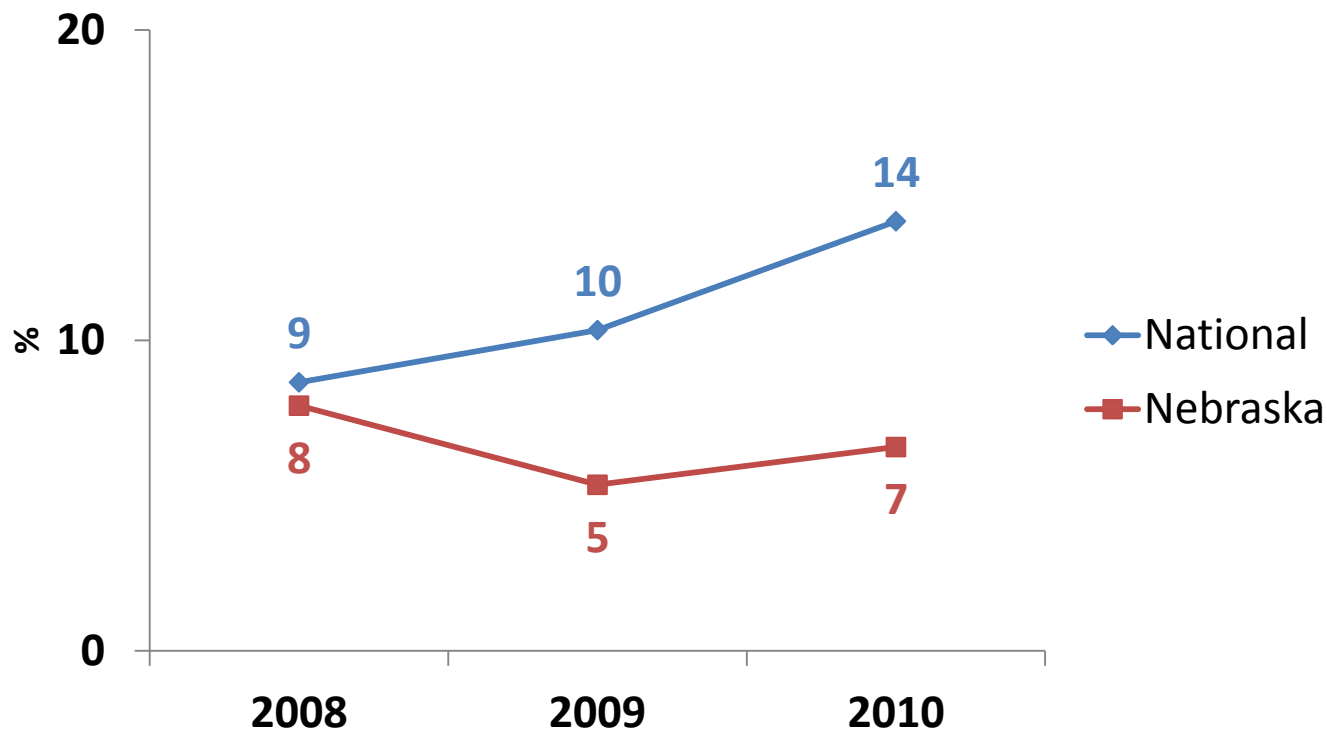
Adoption of (Basic) EHRs by Rural Hospitals



Data Source: AHA Hospital Survey

How Does Your State Compare to the National Estimates?

Adoption of (Basic) EHRs by Small Hospitals



Data Source: AHA Hospital Survey

Statewide Estimates: Hospital EHR Adoption



Data Source: AHA Hospital Survey

Data from 2010

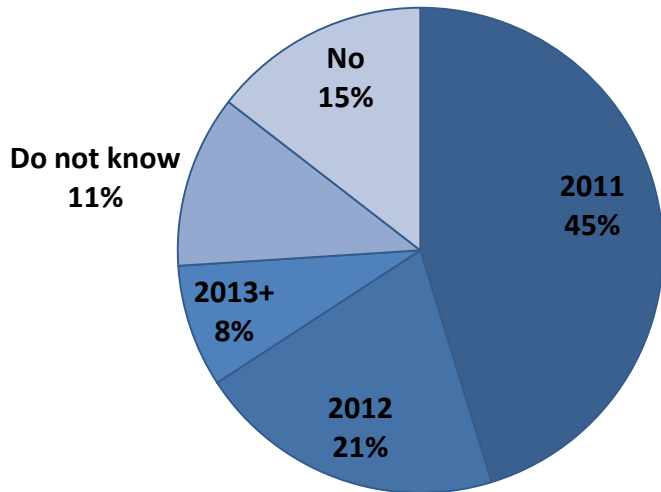
Meaningful Use

How Does Your State Compare to the National Estimates?

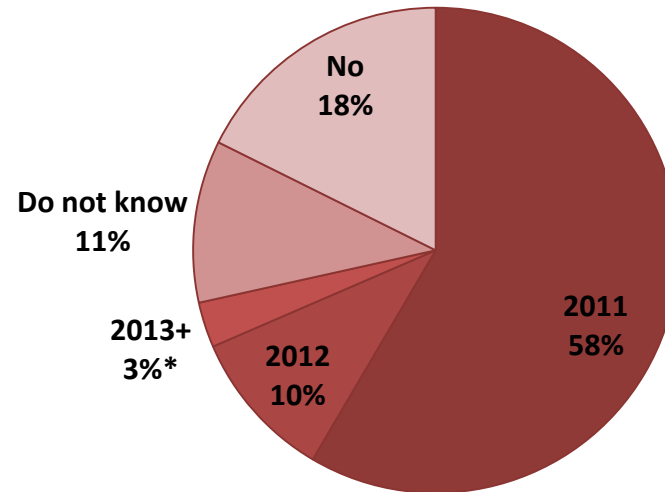
Year Hospitals Intend to Apply for Meaningful Use



National



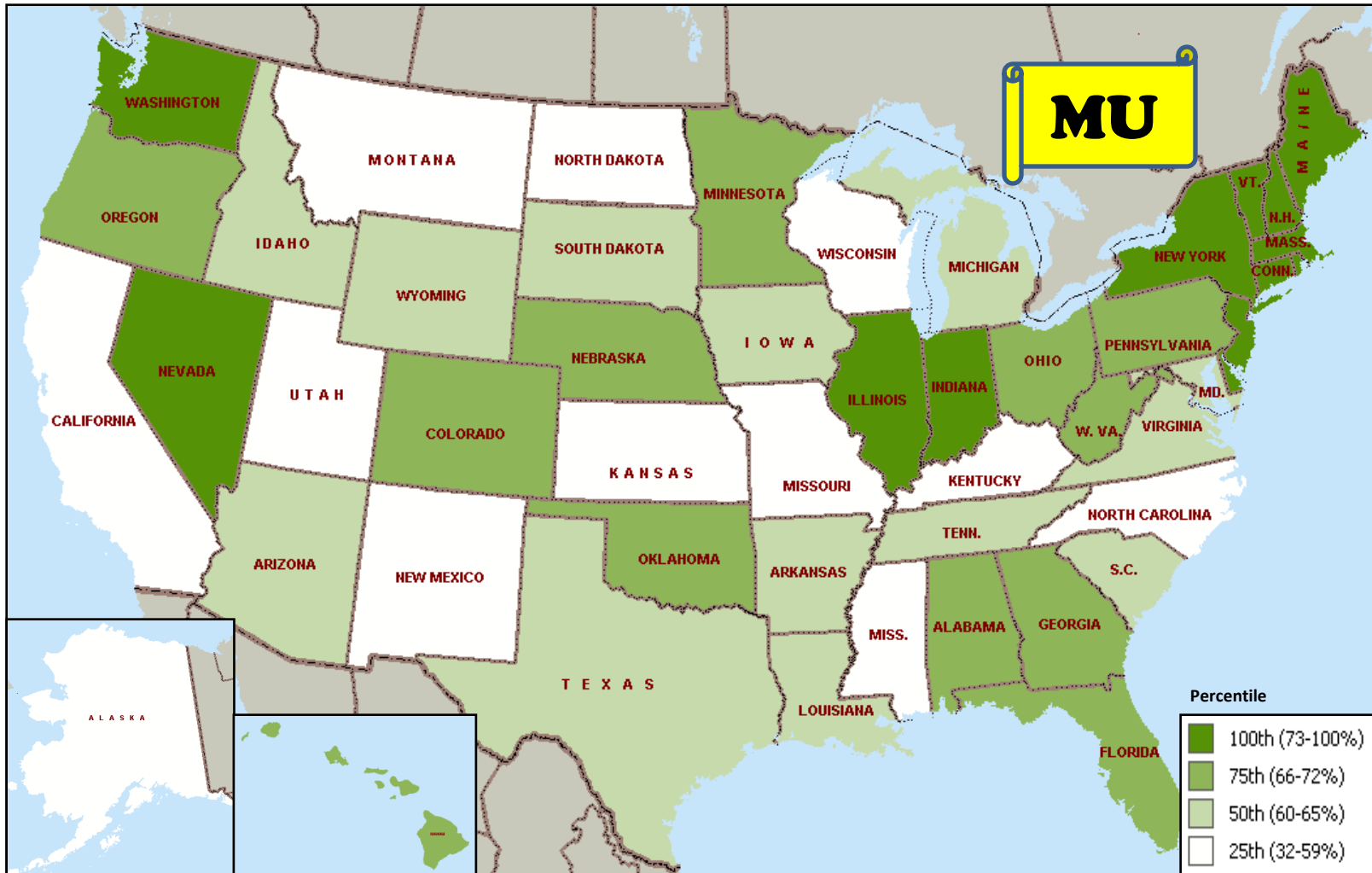
Nebraska



Data Source: AHA Hospital Survey
Data from 2010

*Estimate not reliable due to sample size
and relative standard error greater than .49

Statewide Estimates: Hospitals Intending to Apply for MU in 2011/2012



Data Source: AHA Hospital Survey

Data from 2010

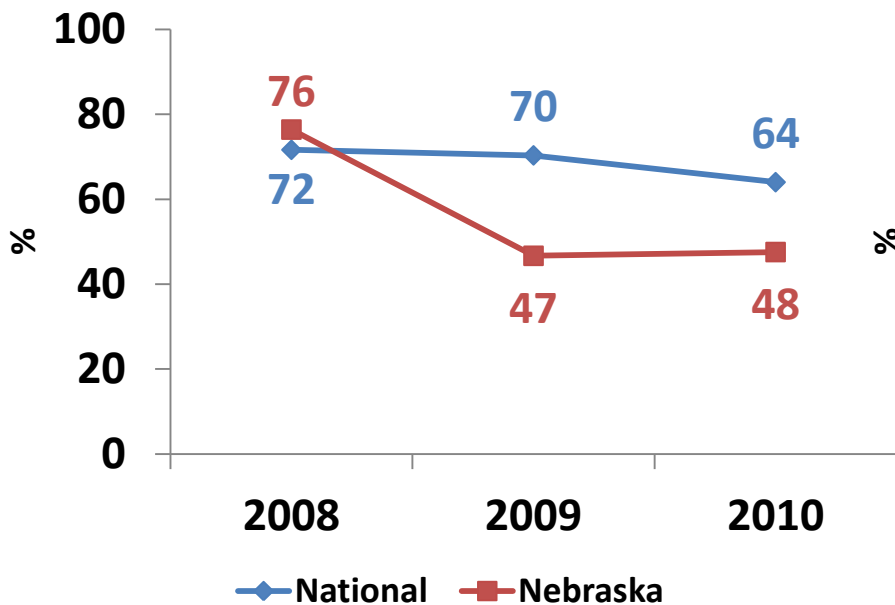
Measures of Lab Exchange

How Does Your State Compare to the National Estimates?

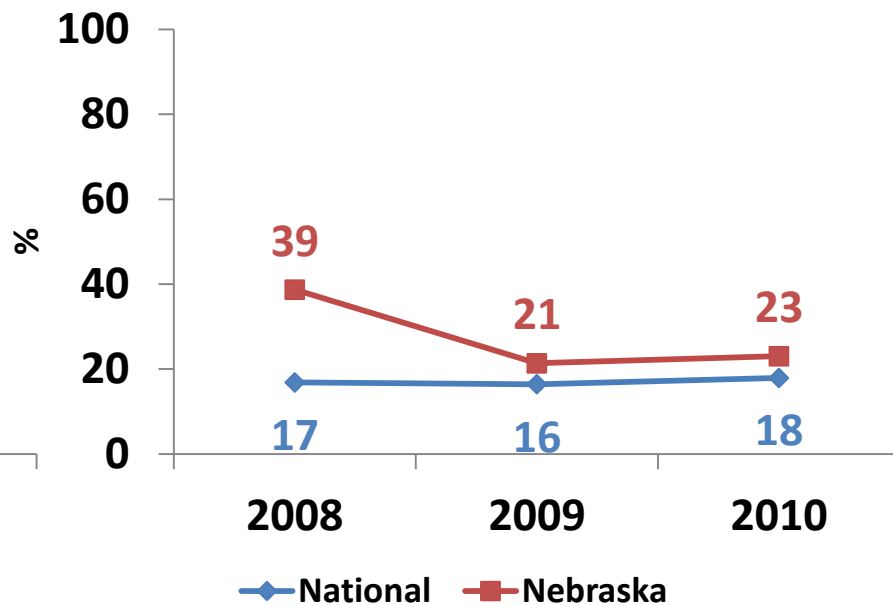
% of Hospitals Electronically Exchanging Laboratory Reports



Inside Hospital System



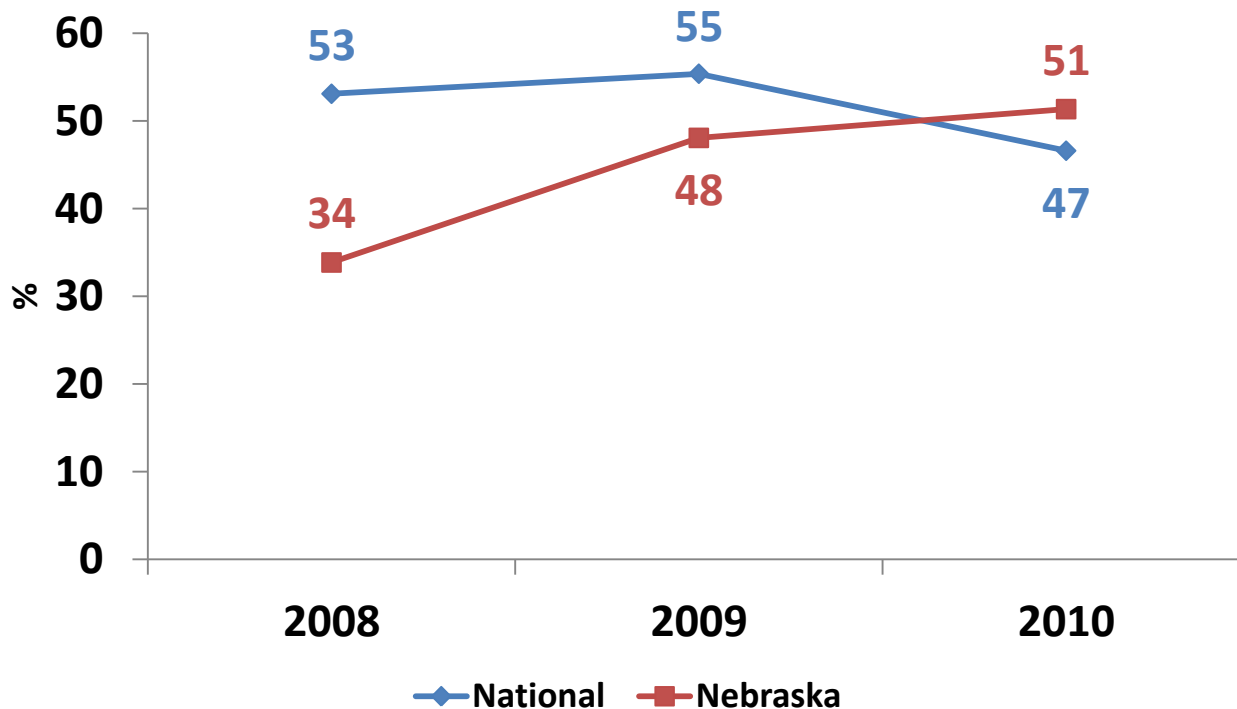
Outside Hospital System



Data Source: AHA Hospital Survey
Data from 2010

How Does Your State Compare to the National Estimates?

% of Hospitals Electronically Exchanging Laboratory Reports with Ambulatory Providers Outside Their System



*Data Source: AHA Hospital Survey
Data from 2010*

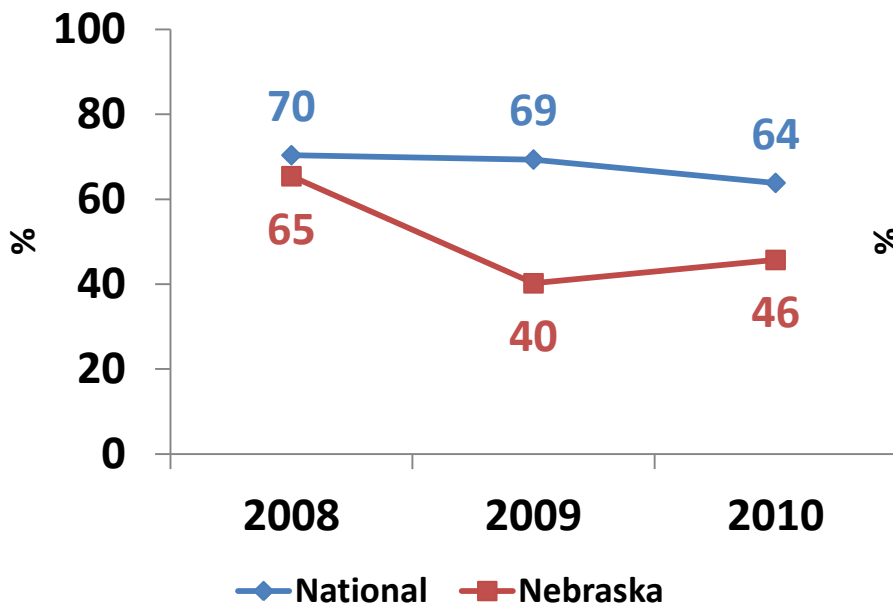
Other Measures of Exchange

How Does Your State Compare to the National Estimates?

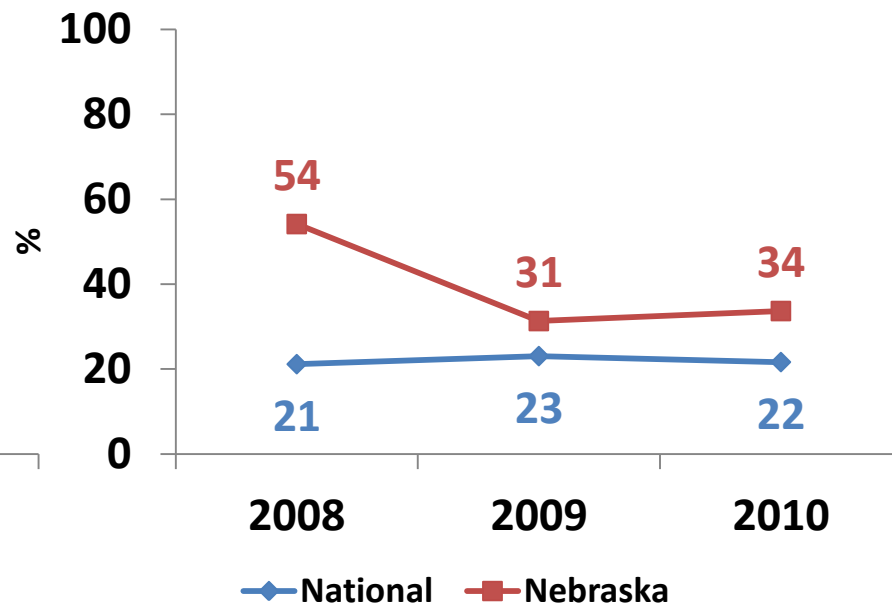


% of Hospitals Electronically Exchanging Radiology Reports

Inside Hospital System



Outside Hospital System



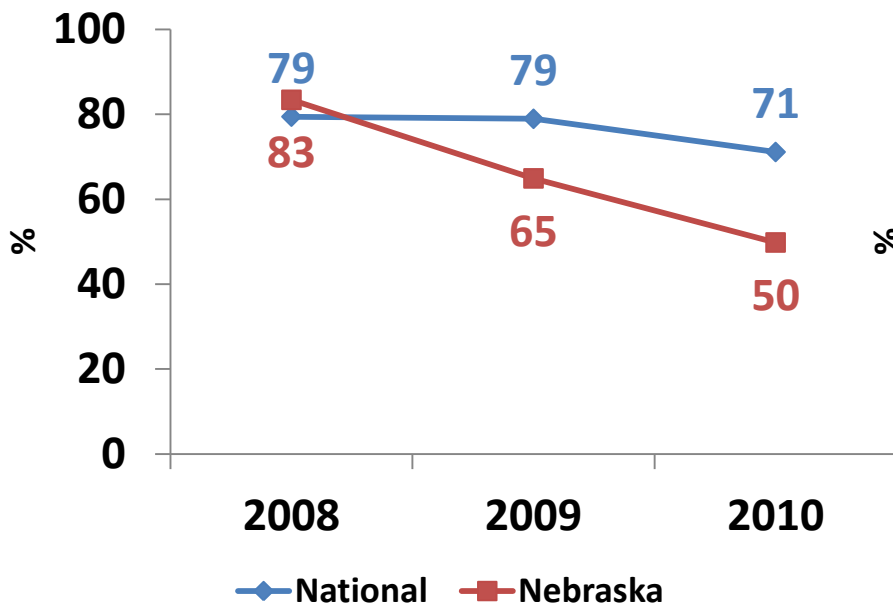
Data Source: AHA Hospital Survey

How Does Your State Compare to the National Estimates?

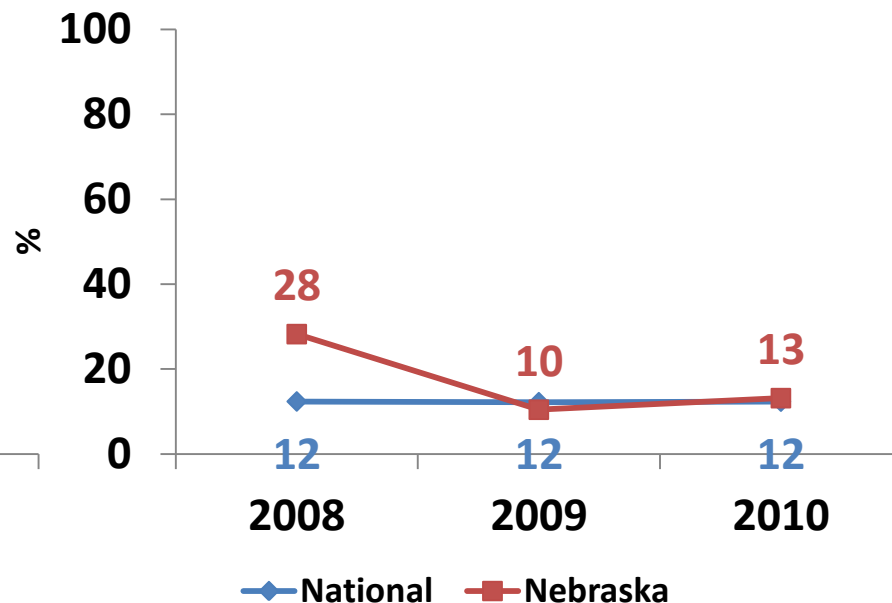


% of Hospitals Electronically Exchanging Medication Histories with Hospitals

Inside Hospital System



Outside Hospital System



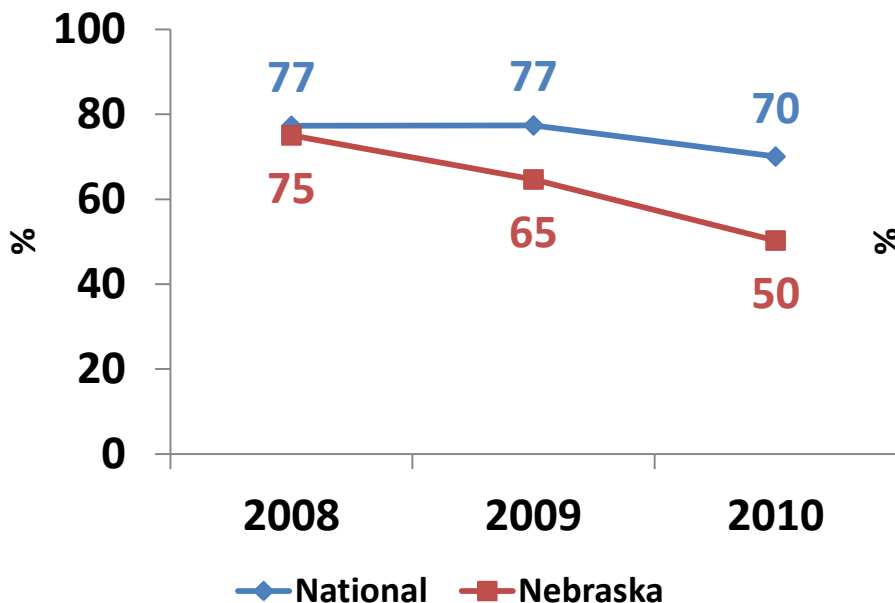
Data Source: AHA Hospital Survey

How Does Your State Compare to the National Estimates?

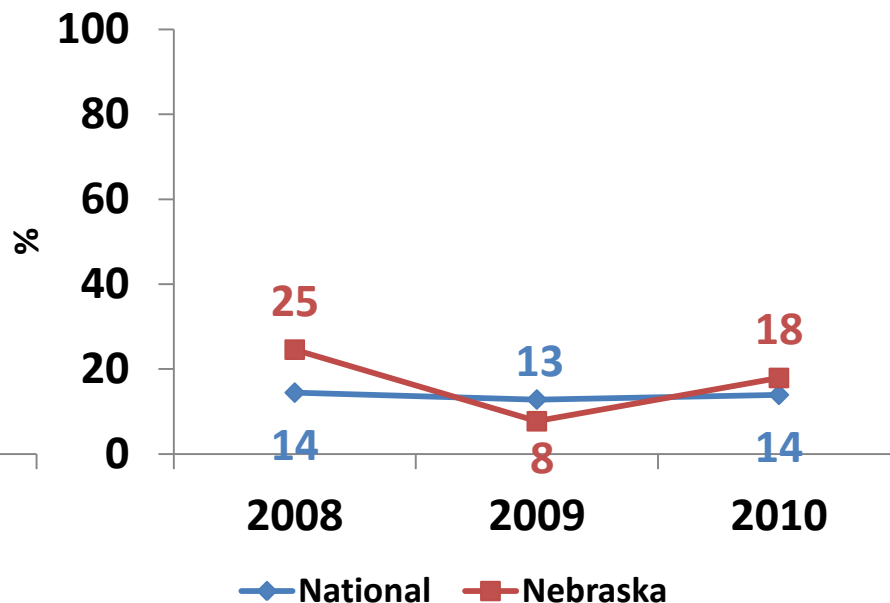


% of Hospitals Electronically Exchanging Care Summaries with Hospitals

Inside Hospital System



Outside Hospital System

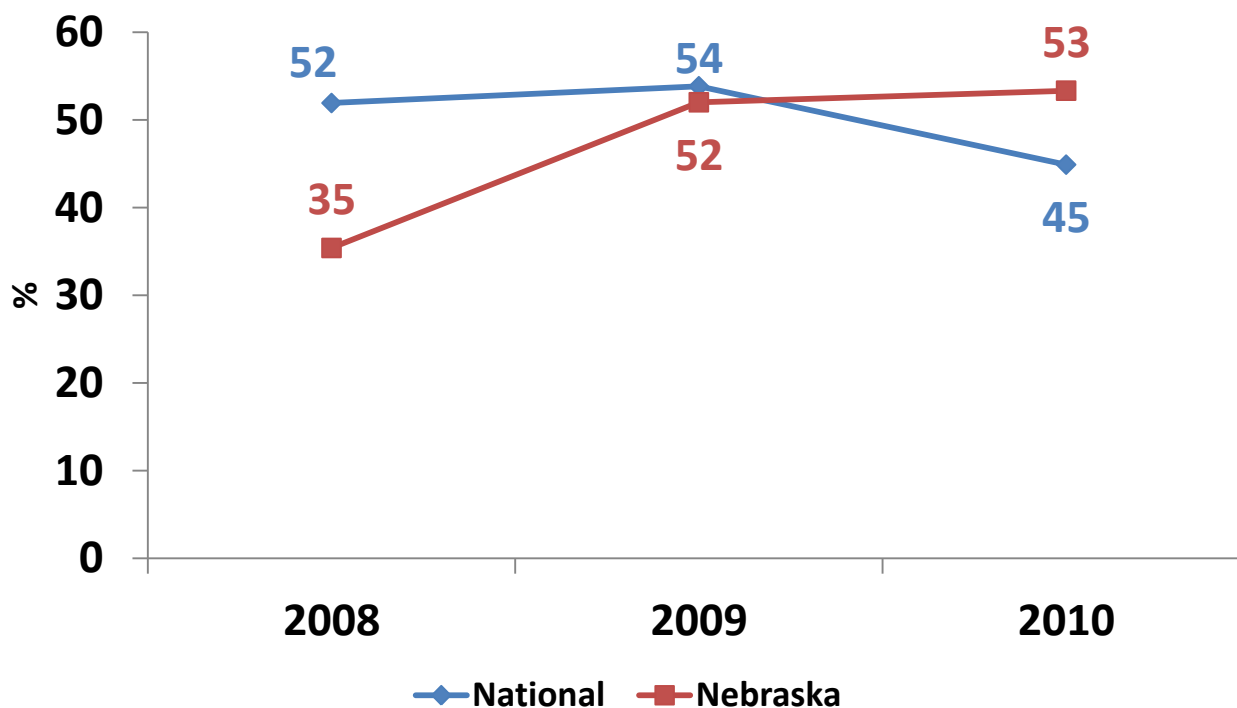


Data Source: AHA Hospital Survey

How Does Your State Compare to the National Estimates?



% of Hospitals Electronically Exchanging Radiology Reports with Ambulatory Providers Outside Their System

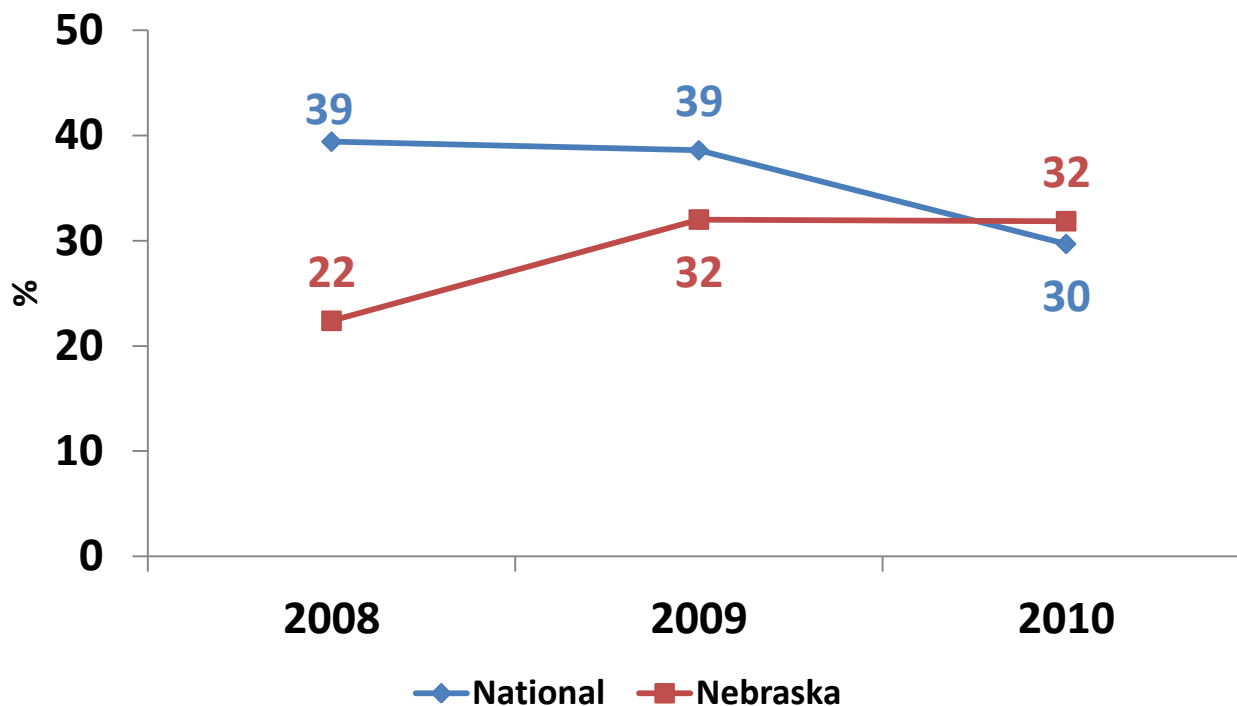


Data Source: AHA Hospital Survey

How Does Your State Compare to the National Estimates?



% of Hospitals Electronically Exchanging Medication Histories with Ambulatory Providers Outside Their System

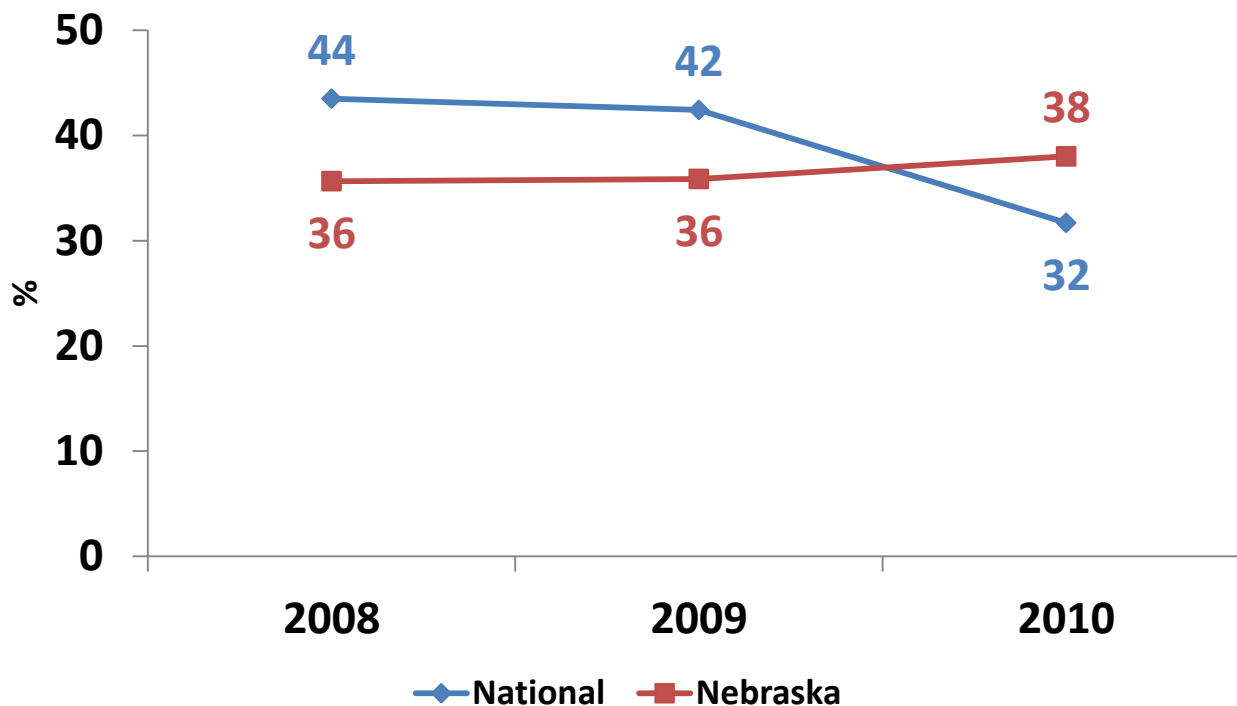


Data Source: AHA Hospital Survey

How Does Your State Compare to the National Estimates?



% of Hospitals Electronically Exchanging Care Summaries with Ambulatory Providers Outside Their System

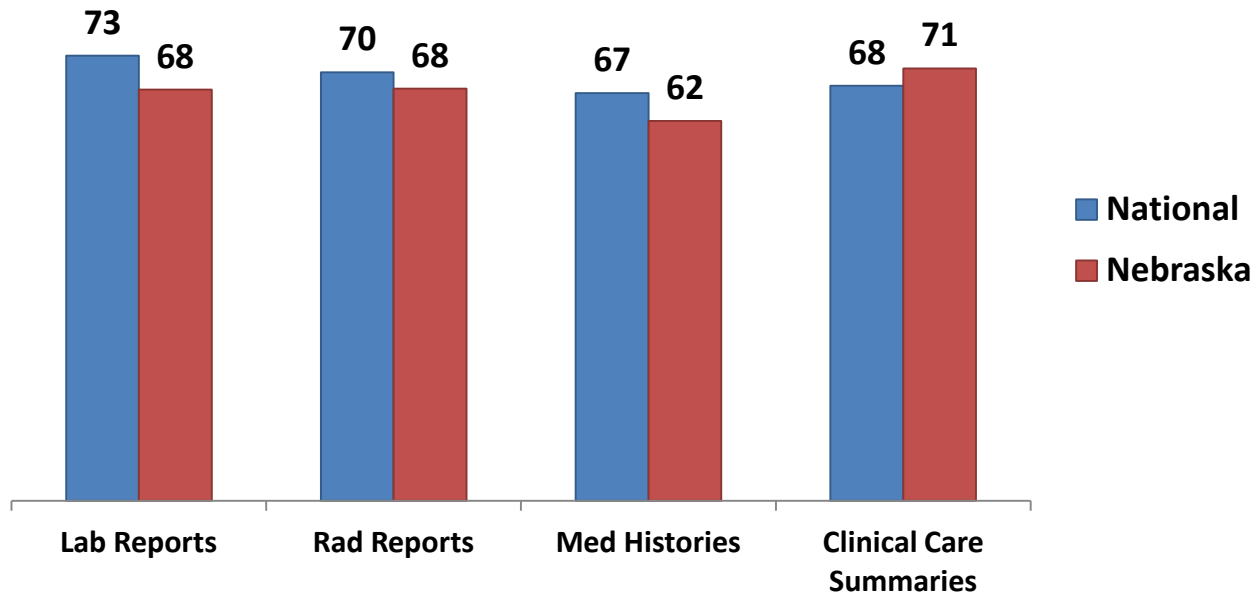


Data Source: AHA Hospital Survey

How Does Your State Compare to the National Estimates?



% of Hospitals Electronically Exchanging Key Data with Ambulatory Providers Inside Their System



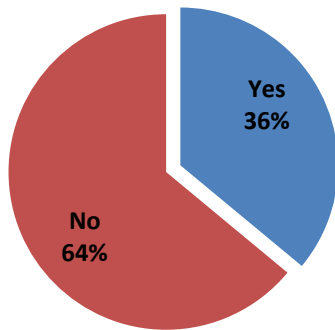
Data Source: AHA Hospital Survey
Data from 2010

How Does Your State Compare to the National Estimates?

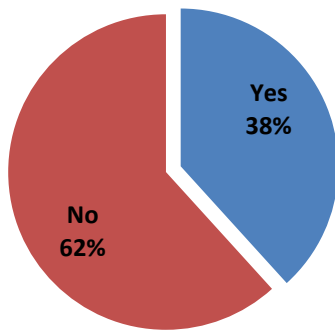
% of Hospitals with Capacity to Provide Patients with an Electronic Copy of their Health Information¹ within 3 Business Days



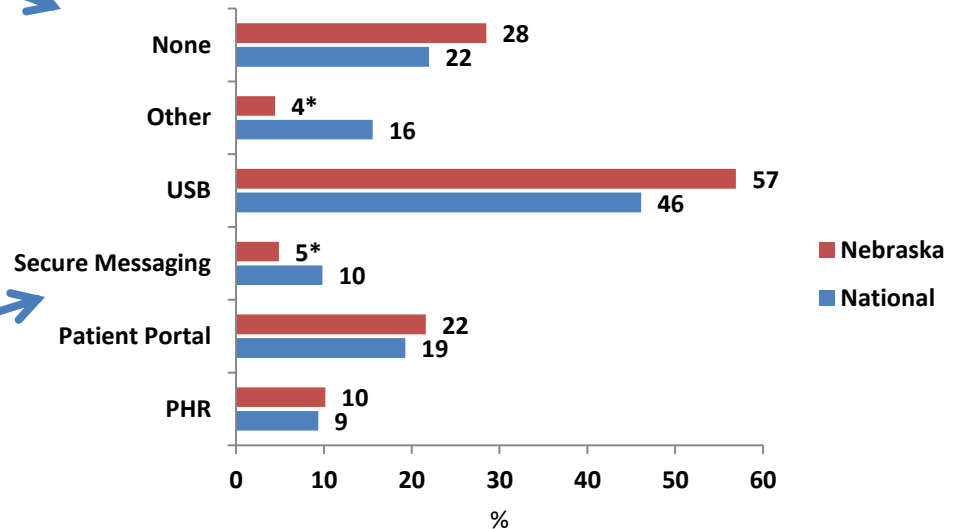
National



Nebraska



Mechanism of Sharing



Data Source: AHA Hospital Survey
Data from 2010

*Estimate not reliable due to sample size and relative standard error greater than .49

¹Includes all of the following: Diagnostic test results, problem lists, medication lists, allergies, and discharge summaries

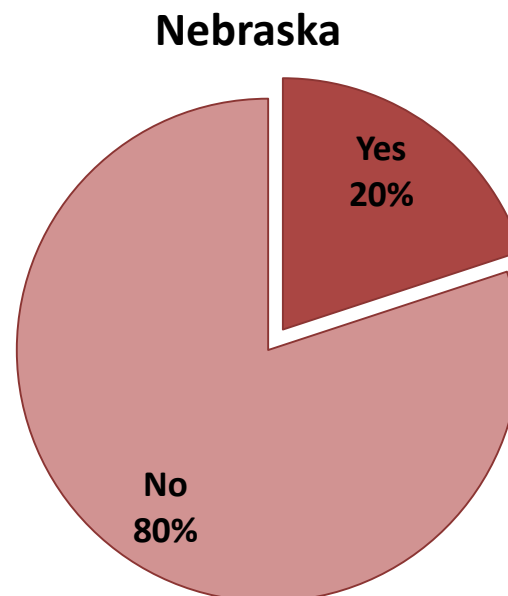
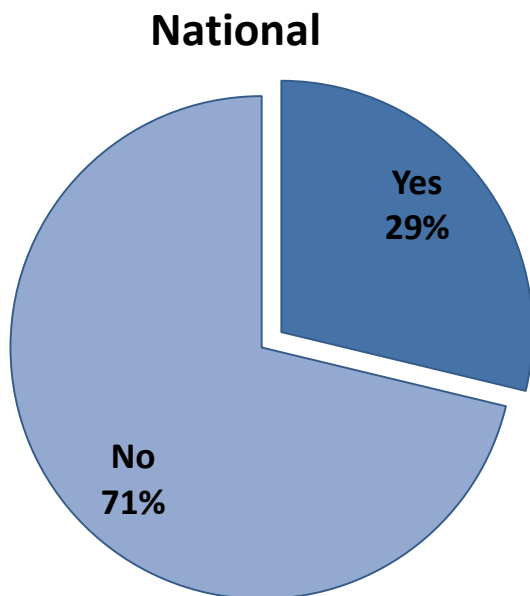
Statewide Estimates: Hospitals Sharing Data Electronically with Patients



Data Source: AHA Hospital Survey
Data from 2010

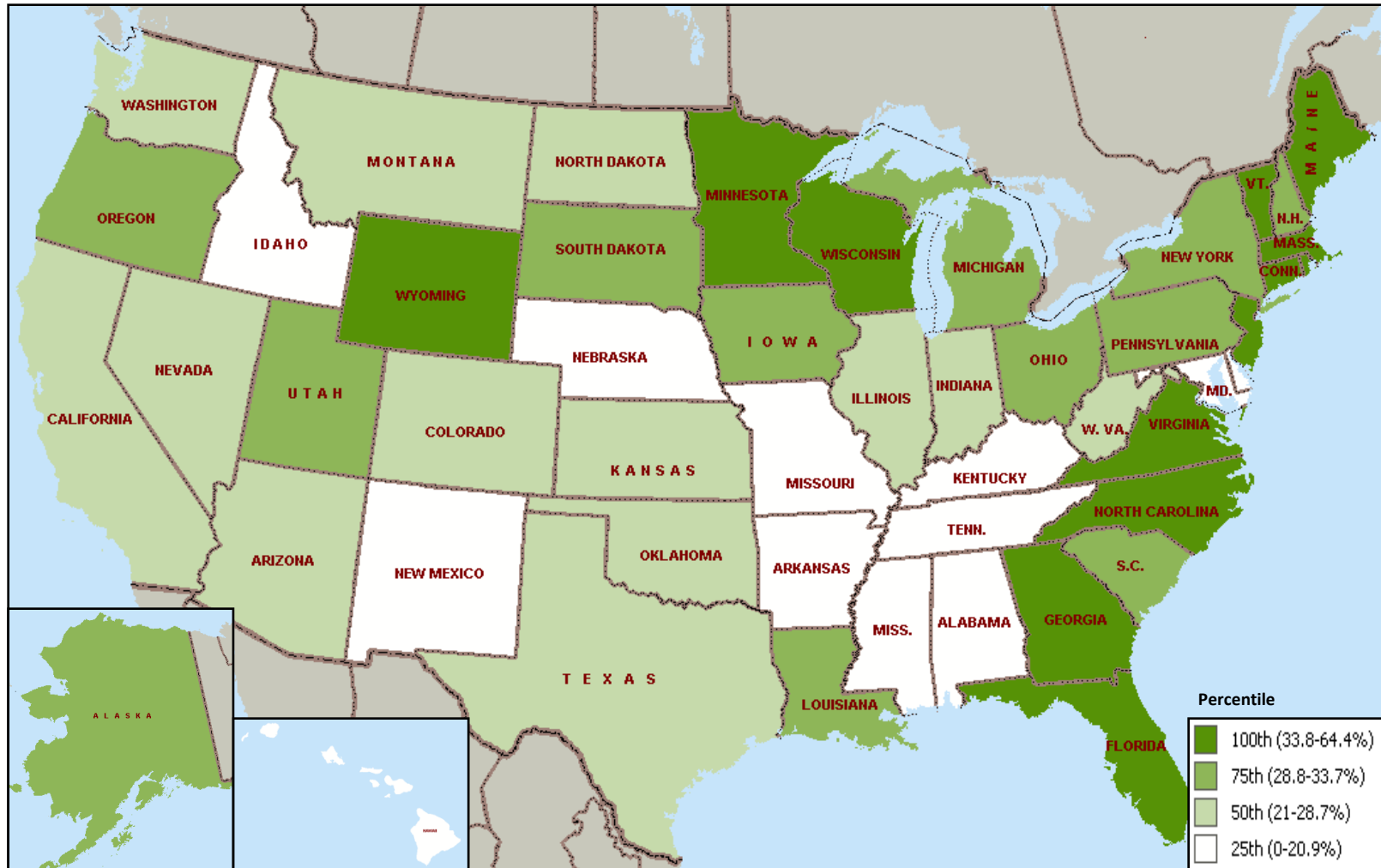
How Does Your State Compare to the National Estimates?

% of Hospitals with Capacity to Send Electronic Reminders to Patients



*Data Source: AHA Hospital Survey
Data from 2010*

Statewide Estimates: Hospitals with Capacity to Send Electronic Reminders to Patients



Data Source: AHA Hospital Survey
Data from 2010

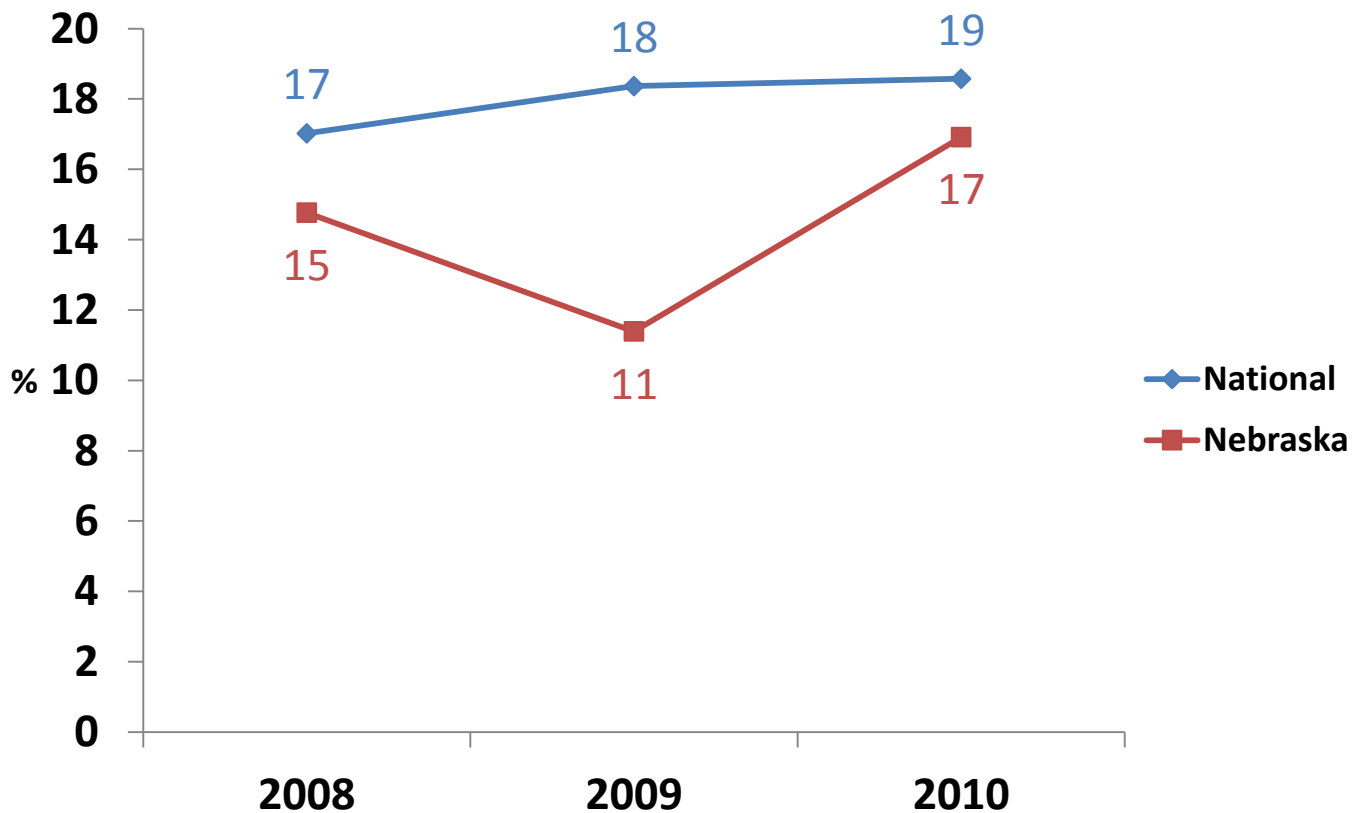
Statewide Estimates: HIE/HIO available in region



Data Source: AHA Hospital Survey
Data from 2010

How Does Your State Compare to the National Estimates?

% of Hospitals with Exchange Capacity and Participating in an HIO



Data Source: AHA Hospital Survey

Thank you!