

The Office of the National Coordinator for
Health Information Technology



Data Analytics Update

Health IT Policy Committee Meeting
July 9, 2013

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

Recent results from 2 national surveys of physicians and hospitals:

- 1) Trends in adoption of EHRs and MU capabilities among physicians and hospitals
- 2) Routine use of EHR and MU capabilities among physicians
- 3) Stage 2 readiness among hospitals

Office-Based Physicians Are Responding To Incentives And Assistance By Adopting And Using Electronic Health Records

CJ Hsiao, AK Jha, J King, V Patel, MF Furukawa, F Mostashari
Health Affairs, 2013, vol. 32, no. 8.

Adoption Of Electronic Health Records Grows Rapidly, But Fewer Than Half Of US Hospitals Had At Least A Basic System In 2012

CM DesRoches, D Charles, MF Furukawa, MS Joshi, P Kralovec,
F Mostashari, C Worzala, AK Jha
Health Affairs, 2013, vol. 32, no. 8.

- “Basic EHR”
 - Defined by expert panel prior to MU
 - Does not correspond exactly to MU
 - Some Stage 1 MU Core objectives not part of a “Basic EHR”
 - Some “Basic EHR” functionalities not part of Stage 1 MU Core
 - Nonetheless, useful for examining trends over time

Comparison of Basic EHR and MU

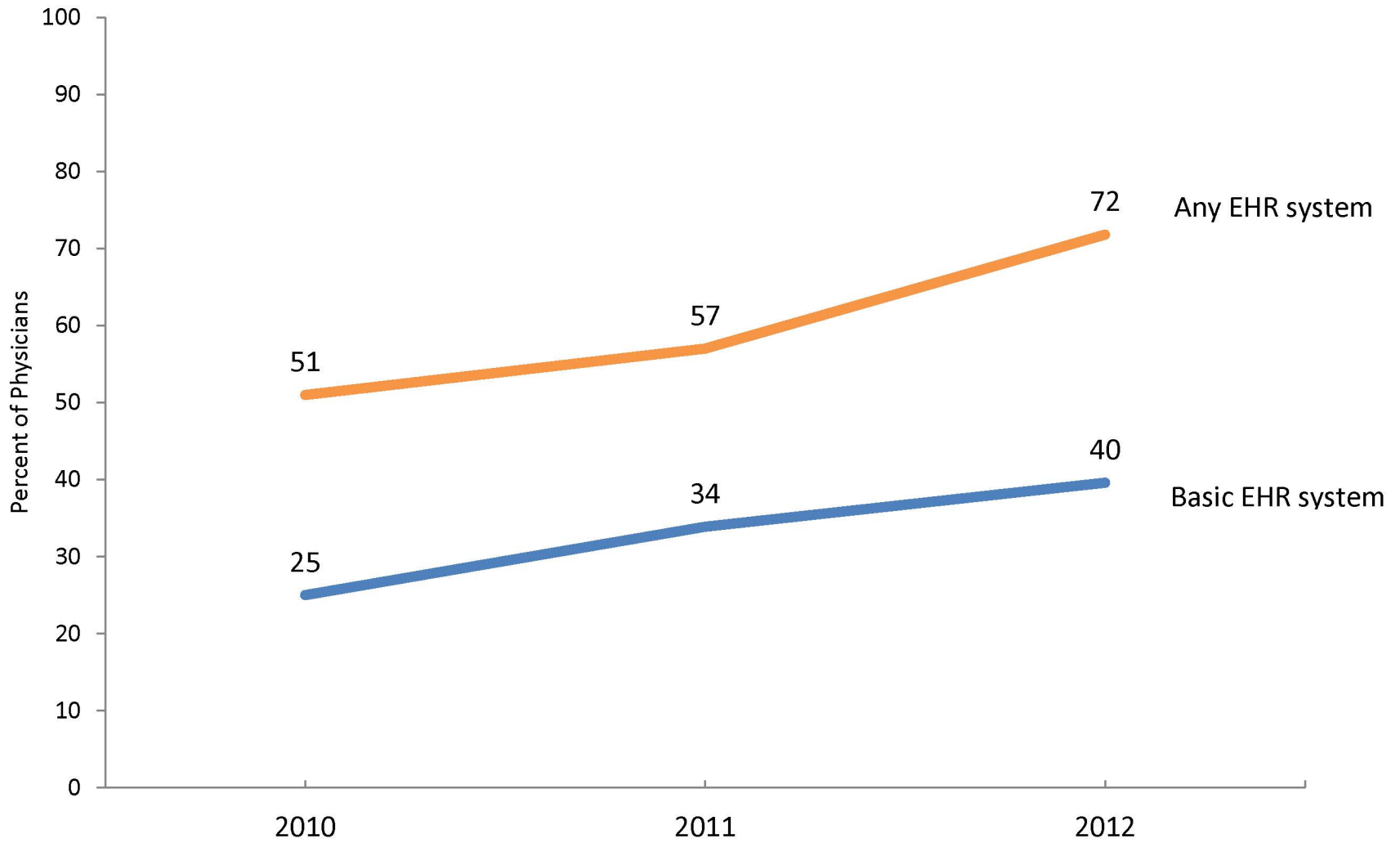
	MU Stage 1 Core	Basic EHR: Physicians	Basic EHR: Hospitals
Record demographics	X	X	X
Maintain patient problem lists	X	X	X
Maintain medication/allergy lists	X	X	X
CPOE for prescriptions	X	X	X
Discharge summaries*	X		X
E-prescribe**	X		
Record smoking status	X		
Record vital signs	X		
Provide warnings of drug interactions	X		
Provide patients clinical summaries**	X		
Clinical decision support	X		
Provide patients e-copy of health info	X		
Clinical quality measures	X		
Protect electronic health info	X		
Record clinical notes		X	X
View lab results		X	X
View imaging results		X	X
View diagnostic test results			X

* EH only ** EP only

Physicians:

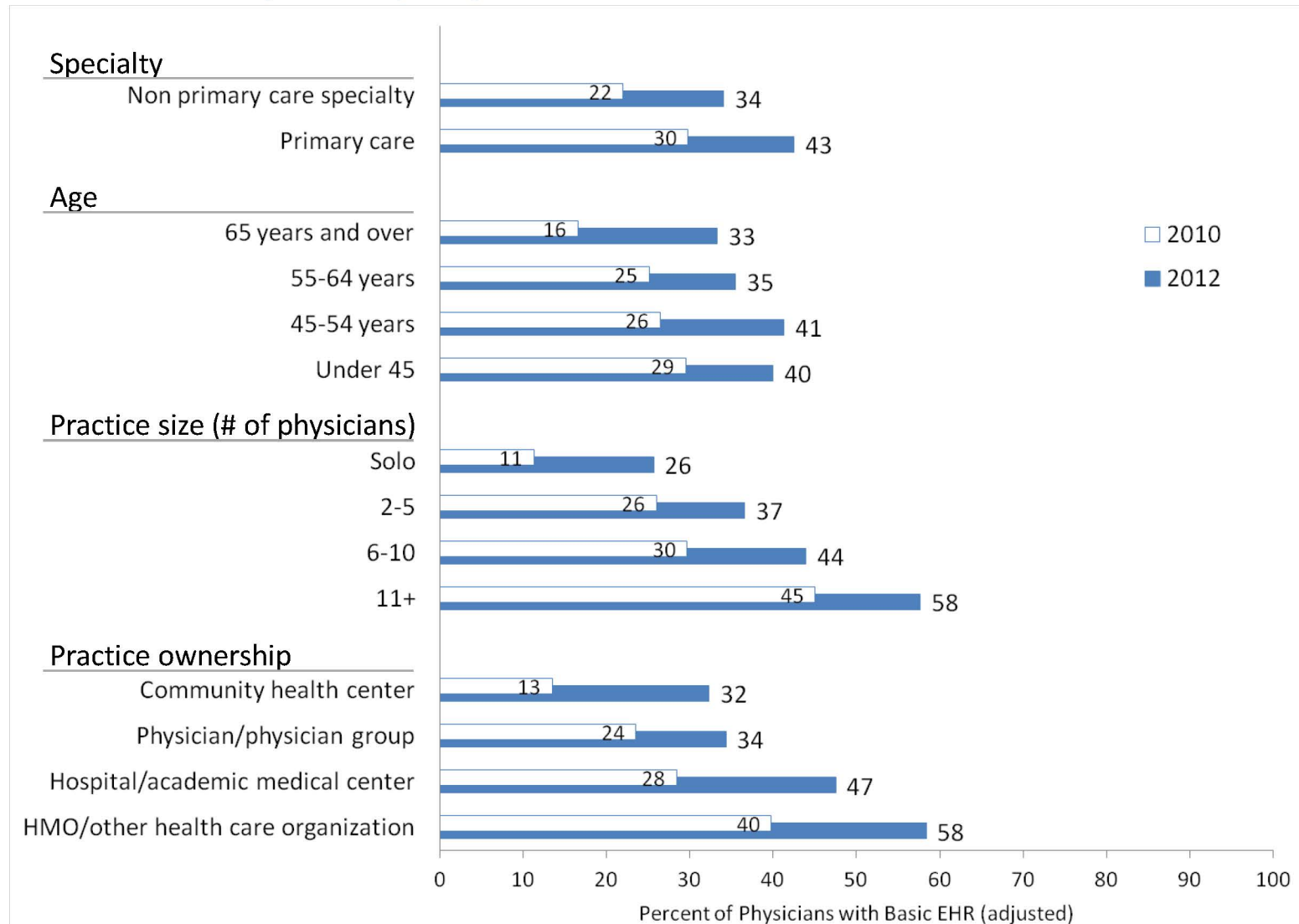
Adoption and use of EHRs and MU capabilities

EHR Adoption among Office-Based Physicians: 2010-2012



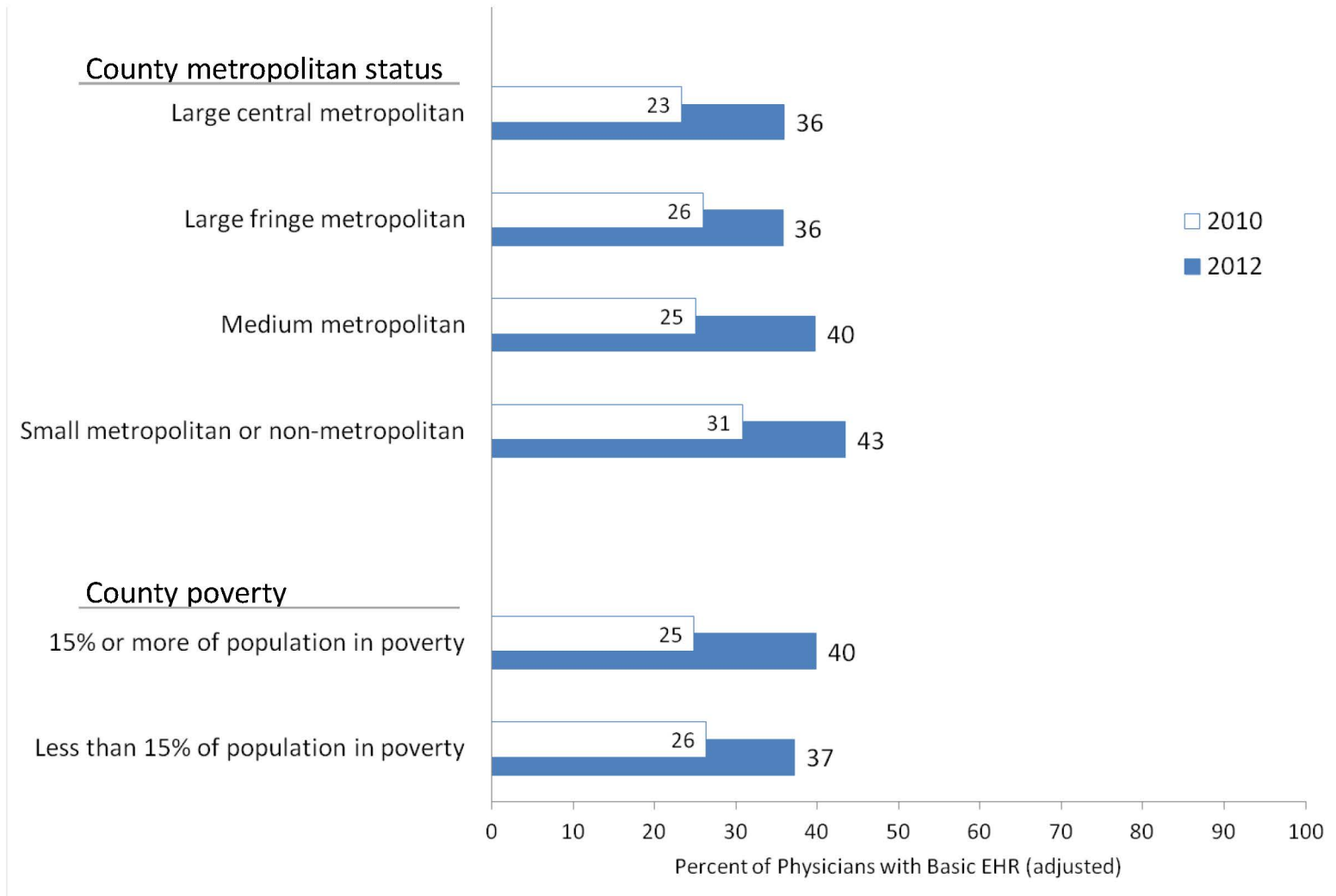
Source: CJ Hsiao, et al. *Health Affairs*, 2013, vol. 32, no. 8. Analysis of data from the Electronic Health Records mail survey to the National Ambulatory Medical Care Survey, 2010-2012. Notes: Numbers are unadjusted. Any EHR system is a health record system that is all or partially electronic. Basic EHR systems have the following functionalities: recording patient demographic information, clinical notes, patient problem lists, and medication/allergy lists; viewing laboratory and imaging results; and using computerized prescription ordering.

Basic EHR Adoption by Physician and Practice Characteristics: 2010-2012



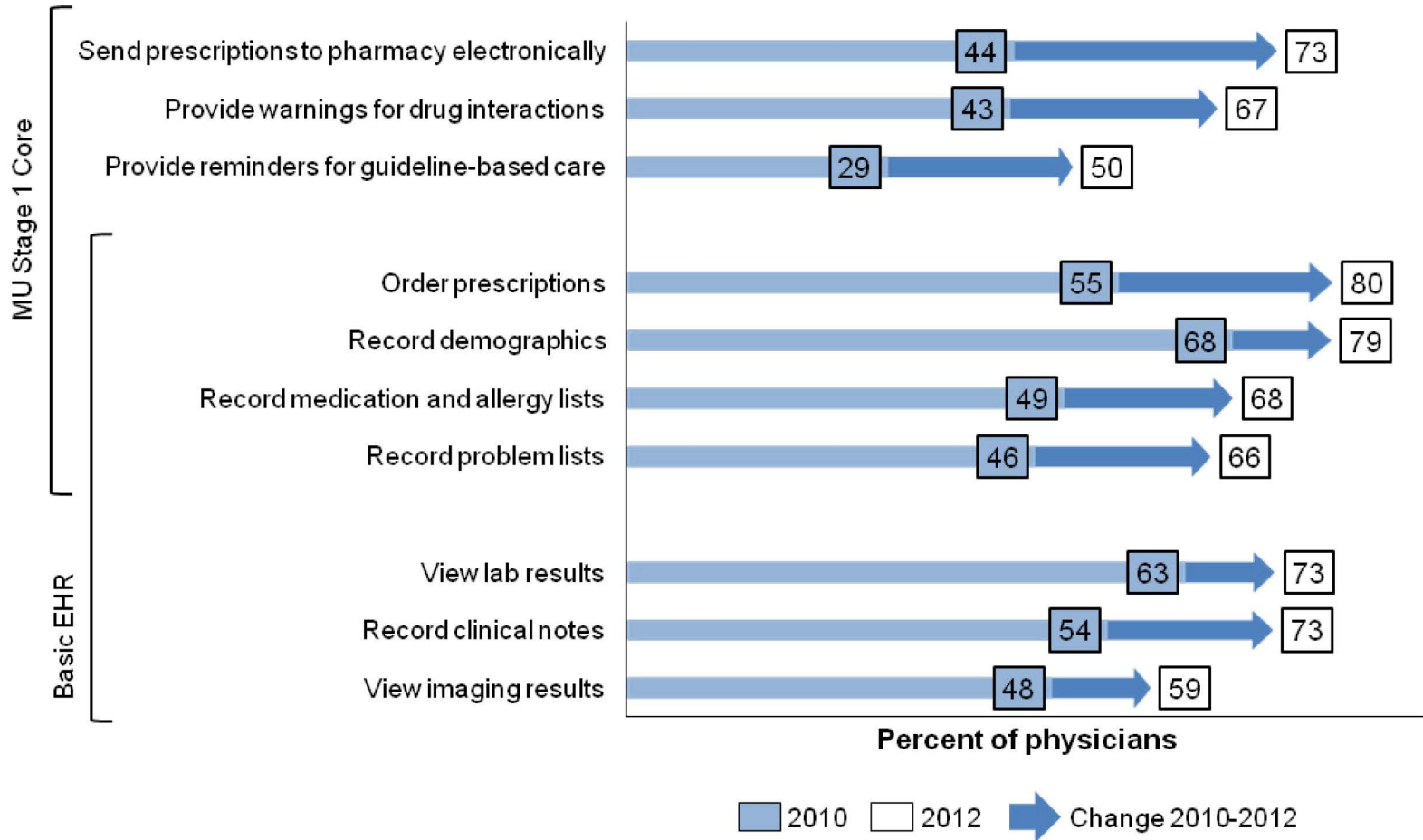
Source: CJ Hsiao, et al. *Health Affairs*, 2013, vol. 32, no. 8. Analysis of data from the Electronic Health Records mail survey to the National Ambulatory Medical Care Survey, 2010 and 2012. Notes: Basic EHR adoption rates are predicted probabilities based on logistic regression controlling for physician, practice, and area characteristics.

Physician Basic EHR Adoption by Area Characteristics: 2010-2012



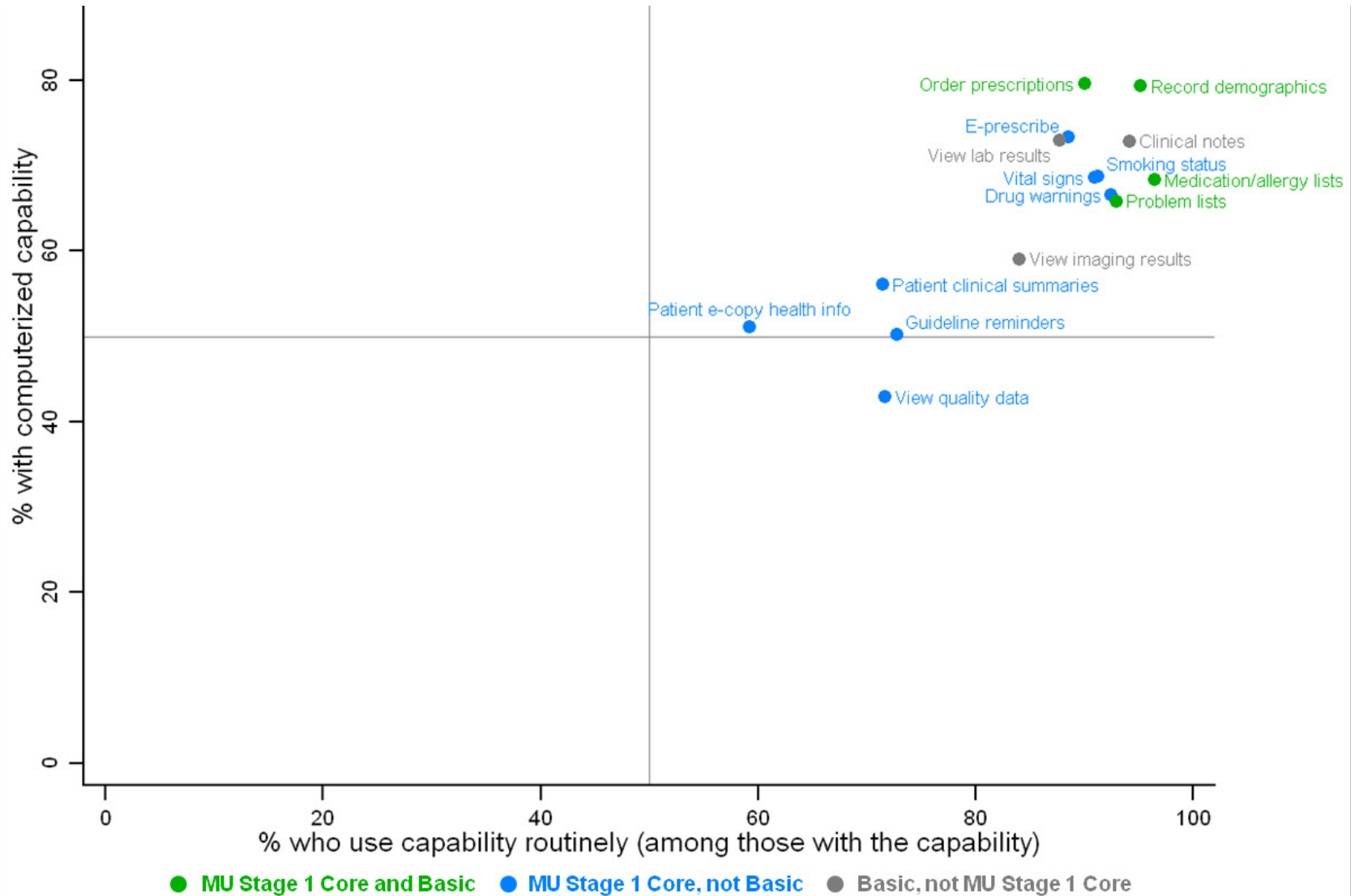
Source: CJ Hsiao, et al. *Health Affairs*, 2013, vol. 32, no. 8. Analysis of data from the Electronic Health Records mail survey to the National Ambulatory Medical Care Survey, 2010 and 2012. Notes: Basic EHR adoption rates are predicted probabilities based on logistic regression controlling for physician, practice, and area characteristics.

Physician Adoption of Computerized Capabilities Related to Basic EHR and MU Stage 1 Core Objectives: 2010-2012



Source: CJ Hsiao, et al. *Health Affairs*, 2013, vol. 32, no. 8. Analysis of data from the Electronic Health Records mail survey to the National Ambulatory Medical Care Survey, 2010 and 2012. Notes: Percentages are unadjusted.

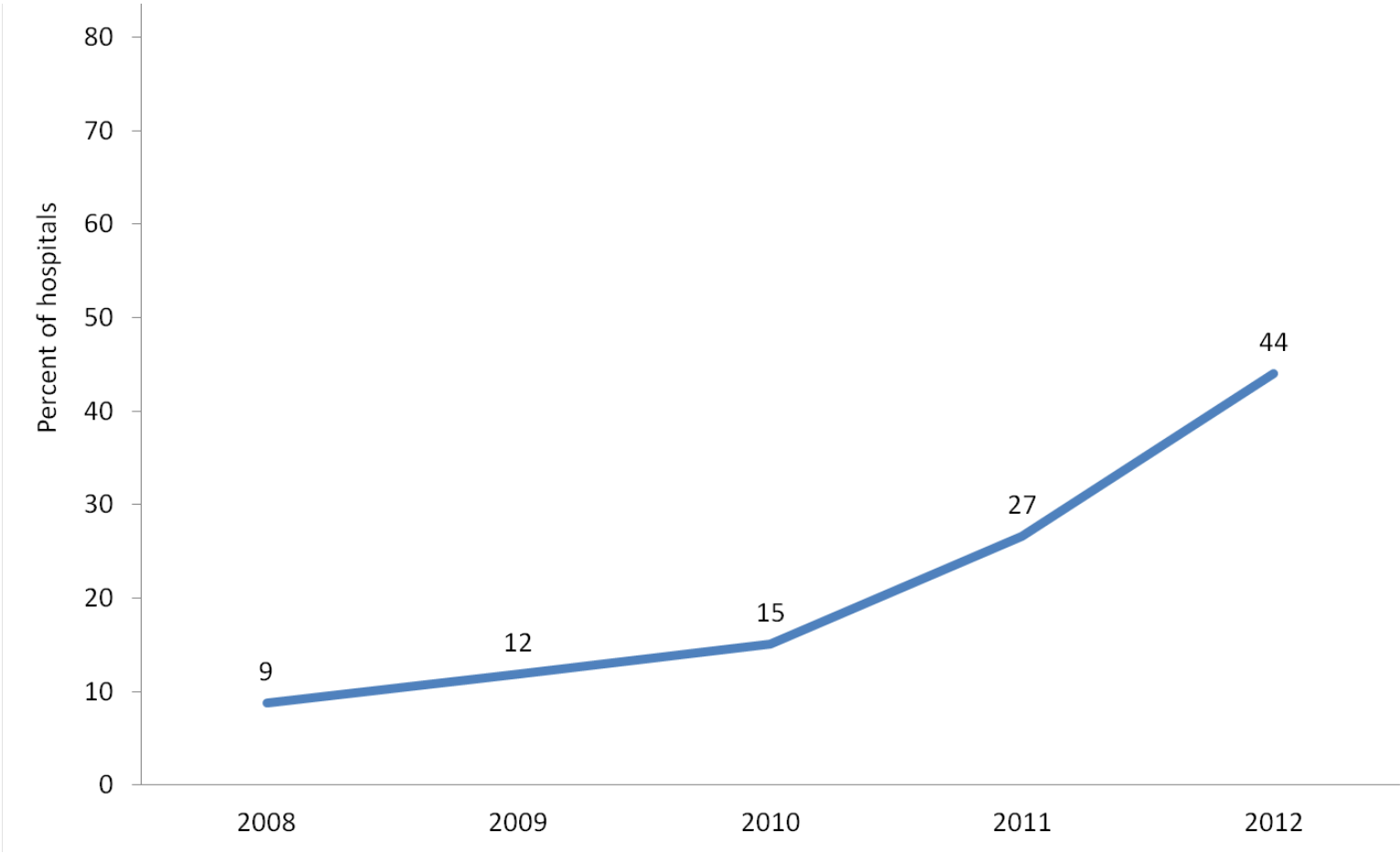
Physician Adoption and Use of Computerized Capabilities Related to Basic EHR and MU Stage 1 Core Objectives: 2012



Hospitals:

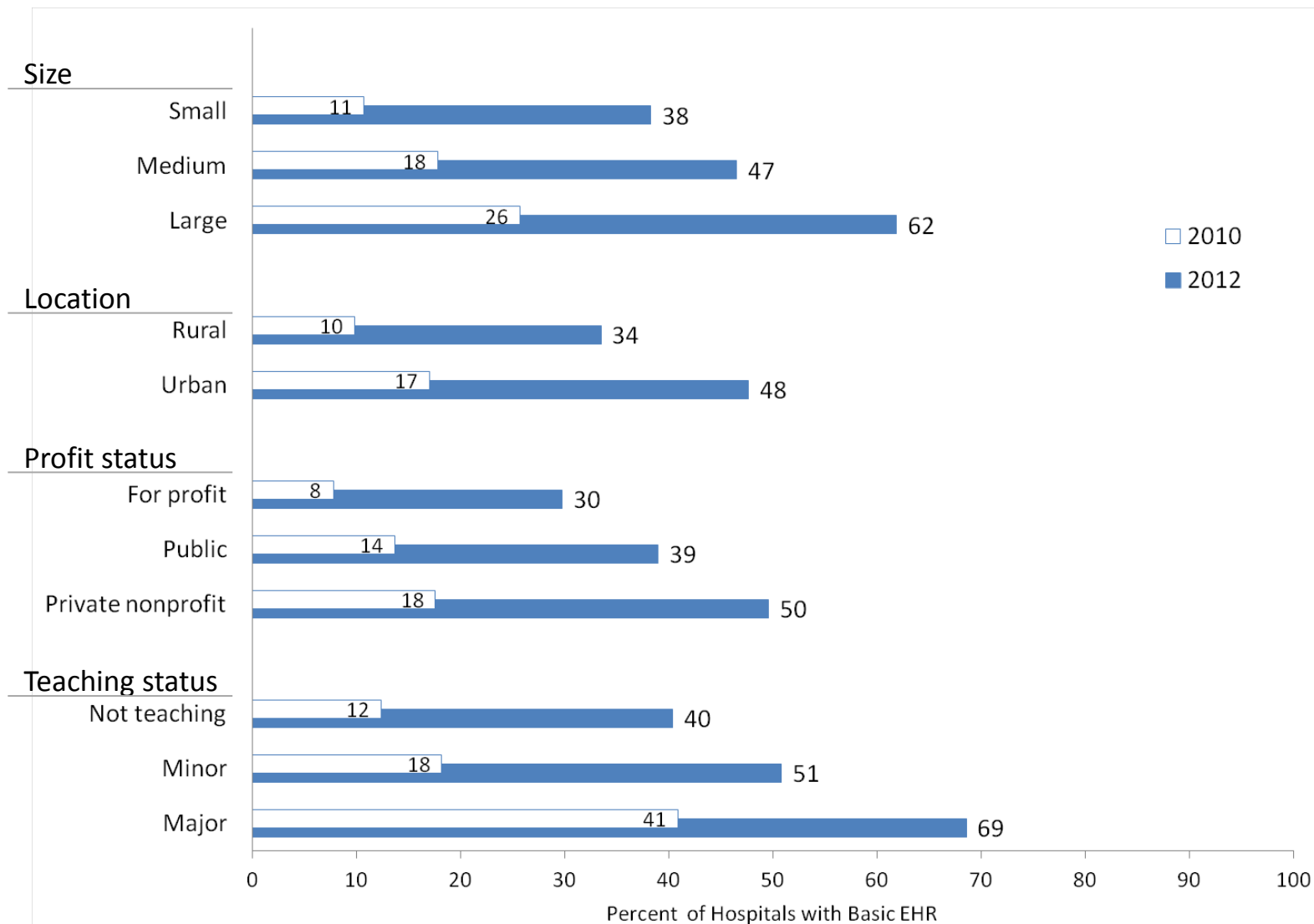
Adoption of EHRs and MU capabilities

Basic EHR Adoption among Hospitals: 2008-2012



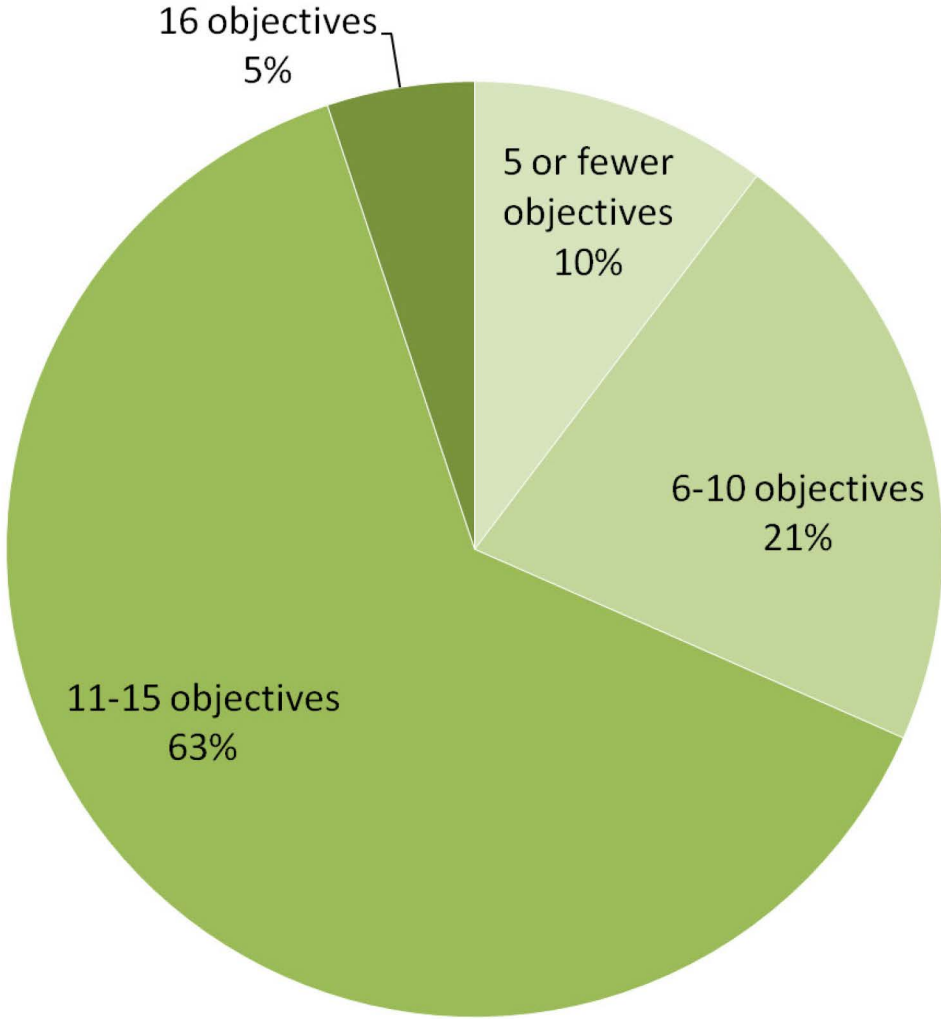
Source: DesRoches, et al. *Health Affairs*, 2013, vol. 32, no. 8. Analysis of data from American Hospital Association, Annual Health Information Technology Supplemental Survey, 2012. Note: Analyses statistically weighted to account for potential nonresponse bias.

Basic EHR Adoption by Hospital Characteristics: 2010-2012



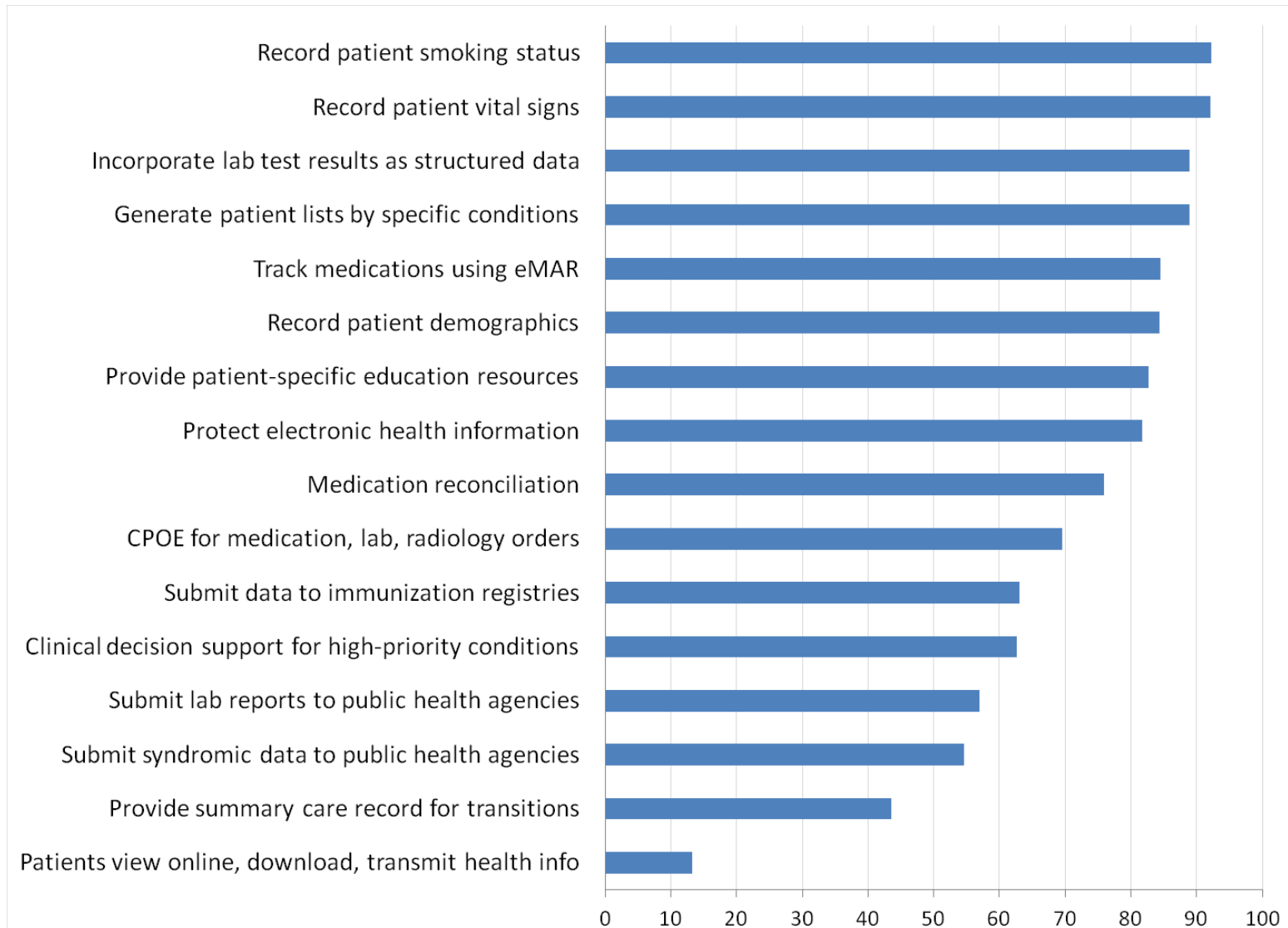
Source: DesRoches, et al. *Health Affairs*, 2013, vol. 32, no. 8. Analysis of data from American Hospital Association, Annual Health Information Technology Supplemental Survey, 2012. Note: Analyses statistically weighted to account for potential nonresponse bias. Major teaching hospitals are members of the Council of Teaching Hospitals. Minor teaching hospitals have either a medical school affiliation, as reported to the American Medical Association, or approval to participate in residency training from the Accreditation Council for Graduate Medical Education. 13

Number of MU Stage 2 Core Objectives Adopted by Hospitals as of 2012



Source: DesRoches, et al. *Health Affairs*, 2013, vol. 32, no. 8. Analysis of data from American Hospital Association, Annual Health Information Technology Supplemental Survey, 2012. Note: Analyses statistically weighted to account for potential nonresponse bias.

Hospital Adoption of Capabilities Associated with MU Stage 2 Core Objectives as of 2012



Source: DesRoches, et al. *Health Affairs*, 2013, vol. 32, no. 8. Analysis of data from American Hospital Association, Annual Health Information Technology Supplemental Survey, 2012. Note: Analyses statistically weighted to account for potential nonresponse bias.

Questions?