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Baseline Data for Maine Pediatric and Family Practices from ARRA-funded HIT Ambulatory Practice Survey Data

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Baseline Data for Maine Pediatric and Family Practices from ARRA-funded HIT Ambulatory Practice Survey Data

Prepared for the IHOC HIT Subcommittee
by IHOC Muskie School Evaluation team

Final revision: May 17, 2011

Muskie School of Public Service

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Updated revisions from draft data reported in January 2011

- Husson and Winthrop Pediatrics submitted surveys upon request. All PCMH pilot practices included. All graphs and charts modified to include these additional surveys.
- Added chart showing percent EHR adoption by pediatric and family practice compared to total respondents.
- Added chart showing EHR adoption by organization type.
- Identified specific practices that are using EHRs for immunization registry and that have incorporated Bright Futures and what EHRs they have.

Maine Health Information Technology (HIT) Ambulatory Practice Survey Description

- Environmental assessment of the current status of electronic health records (EHR) adoption and use
- Commissioned by the Office of MaineCare Services, in collaboration with the Governor's Office for Health Care Finance and Policy's Office of the Coordinator for HIT
- Conducted by the Muskie School, Cutler Institute for Health and Social Policy, University of Southern Maine (USM)
- Surveys conducted between April and June 2010

Survey Overview

- Web-based survey link e-mailed to each medical practice identified.
- Reminders e-mailed a week after the initial e-mail and follow-up phone calls were made to medical provider practices.
- Provider lists obtained from MIHMS provider file, the Maine Medical Association (MMA), and the MaineCare primary care association (MPCA).
- Total survey respondents: 544
- Response rate estimated to be 41.5%

HIT Survey Question Domains

- Practice Organization Background
- Electronic Health Record (EHR) Implementation and Details
- Computerized Provider Order Entry (CPOE)
- Clinical Decision Support Tools
- Lab and Test Results, Other EHR Functions
- Privacy and Security
- Patient Specific Information
- Quality Improvement Functions for Population Management
- Information Exchange activities
- Telemedicine (use, barriers, follow-up)
- Medications and E-prescribing
- EHR Integration
- On-line Services
- Meaningful Use

Definition of EHR used by Maine Health Information Technology (HIT) Ambulatory Practice Survey

"An electronic record of health-related information on an individual that conforms to nationally recognized interoperability standards and that can be created, managed, and consulted by authorized clinicians and staff across more than one health care organization. If your practice has multiple systems that collect patient-specific health information, answer questions concerning your primary system - the one you use for the majority of your patient records."

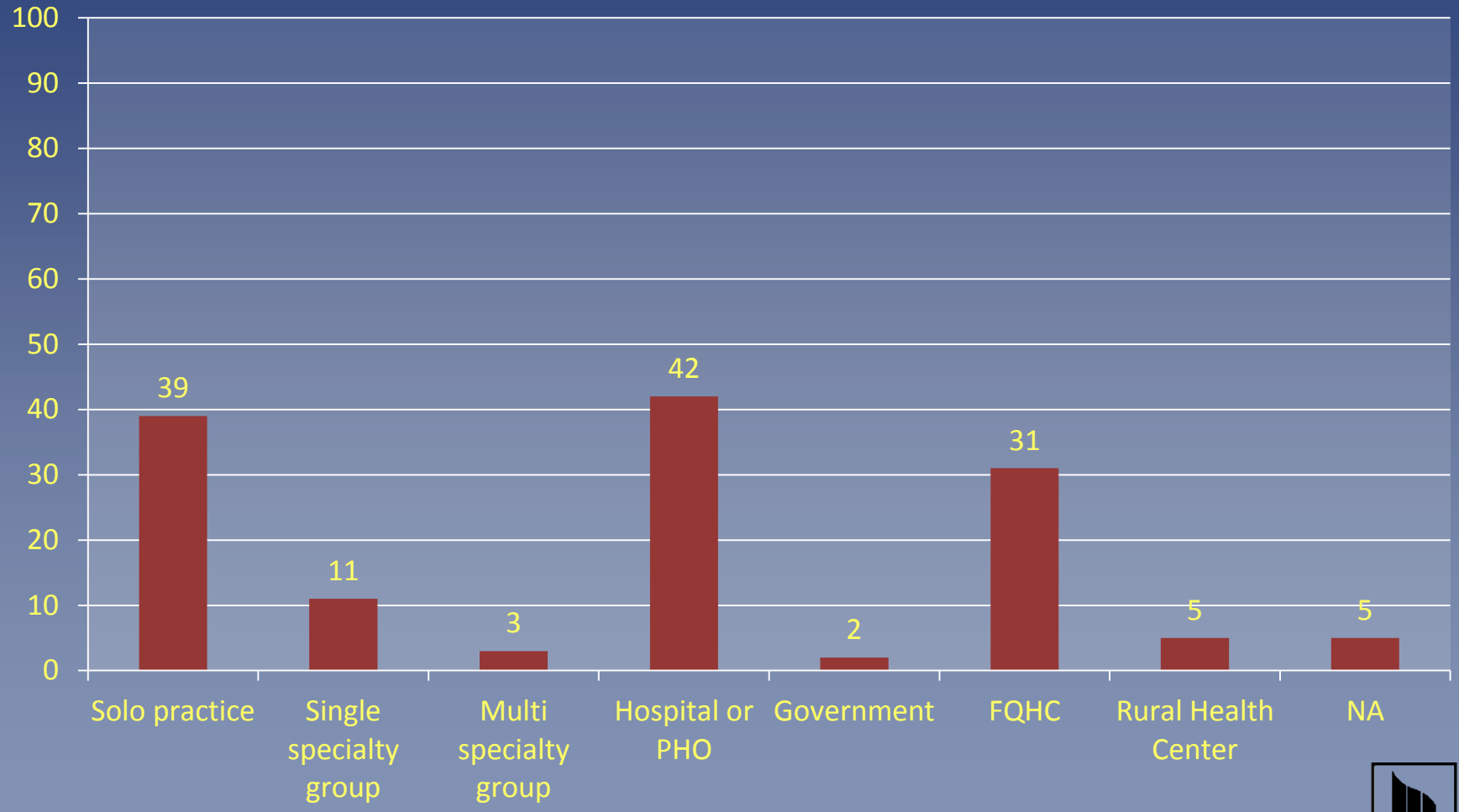
Pediatric and Family Practices Responding to HIT Ambulatory Practice Survey

- 138 pediatric or family practices
- Practices responding by volume of MaineCare children served*:
  - <500 MaineCare children (N=84)
  - 200-1000 MaineCare children (N=26)
  - 1000 + MaineCare children (N=25)
  - Survey respondents include all 4 PCMH pediatric pilot practices.

**Note volume of MaineCare children served not available for 3 responding pediatric or family practices.*

Responding Pediatric and Family Practices by Organizational Ownership

N=138



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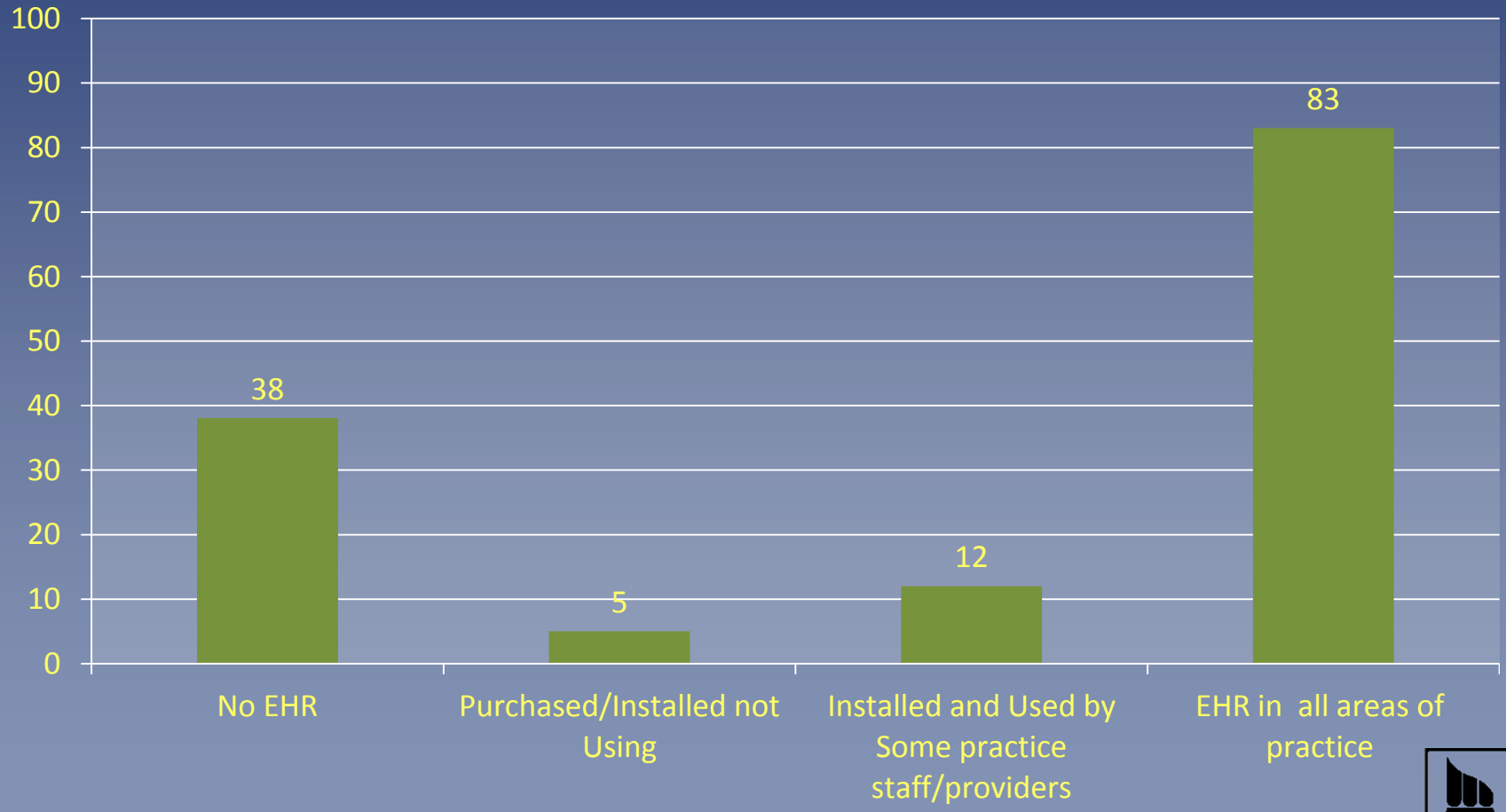
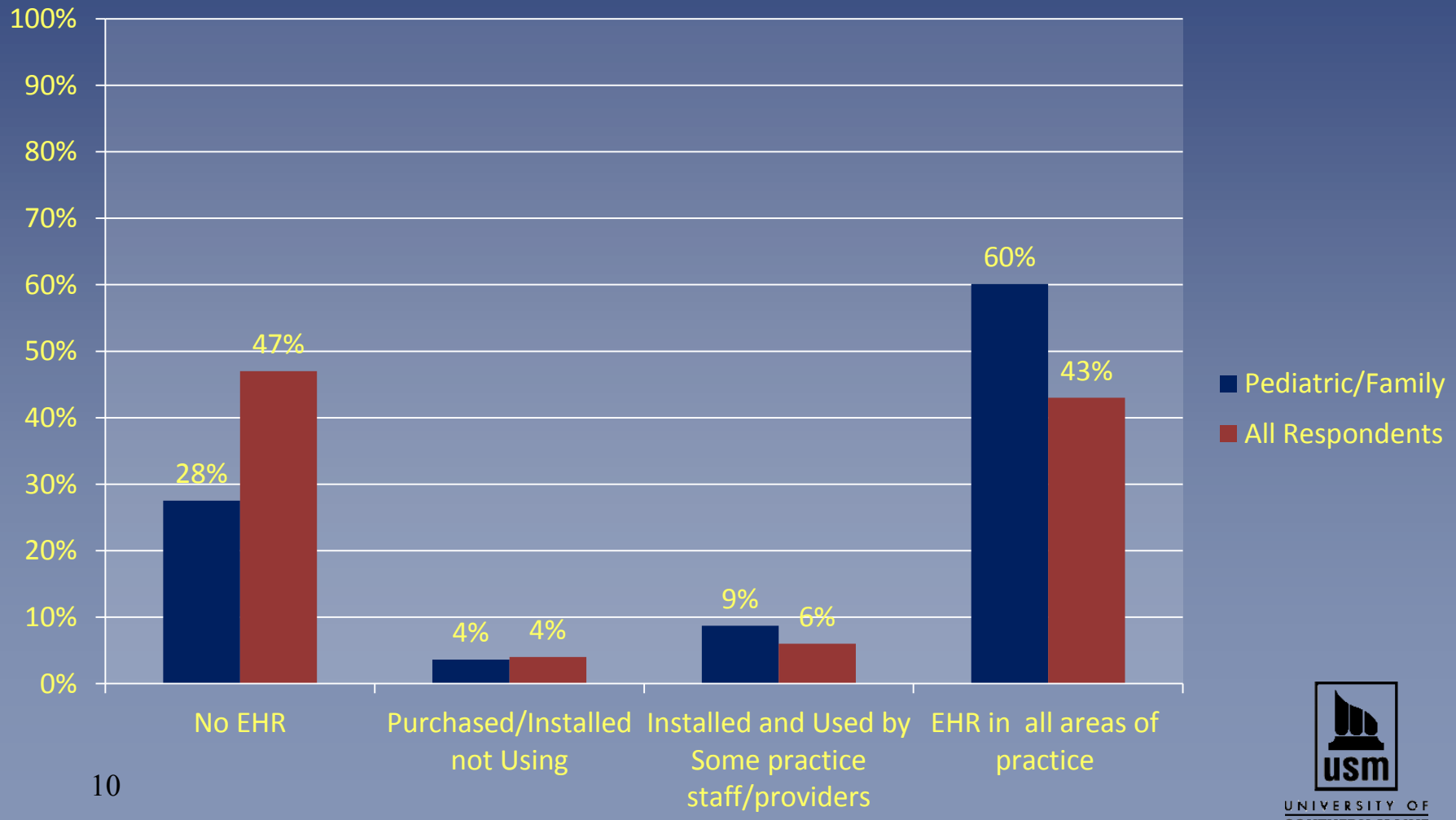
Pediatric and Family Practices Description of EHR Systems
N=138



Percent of EHR Adoption in Pediatric and Family Practices Compared to Total Survey Respondents



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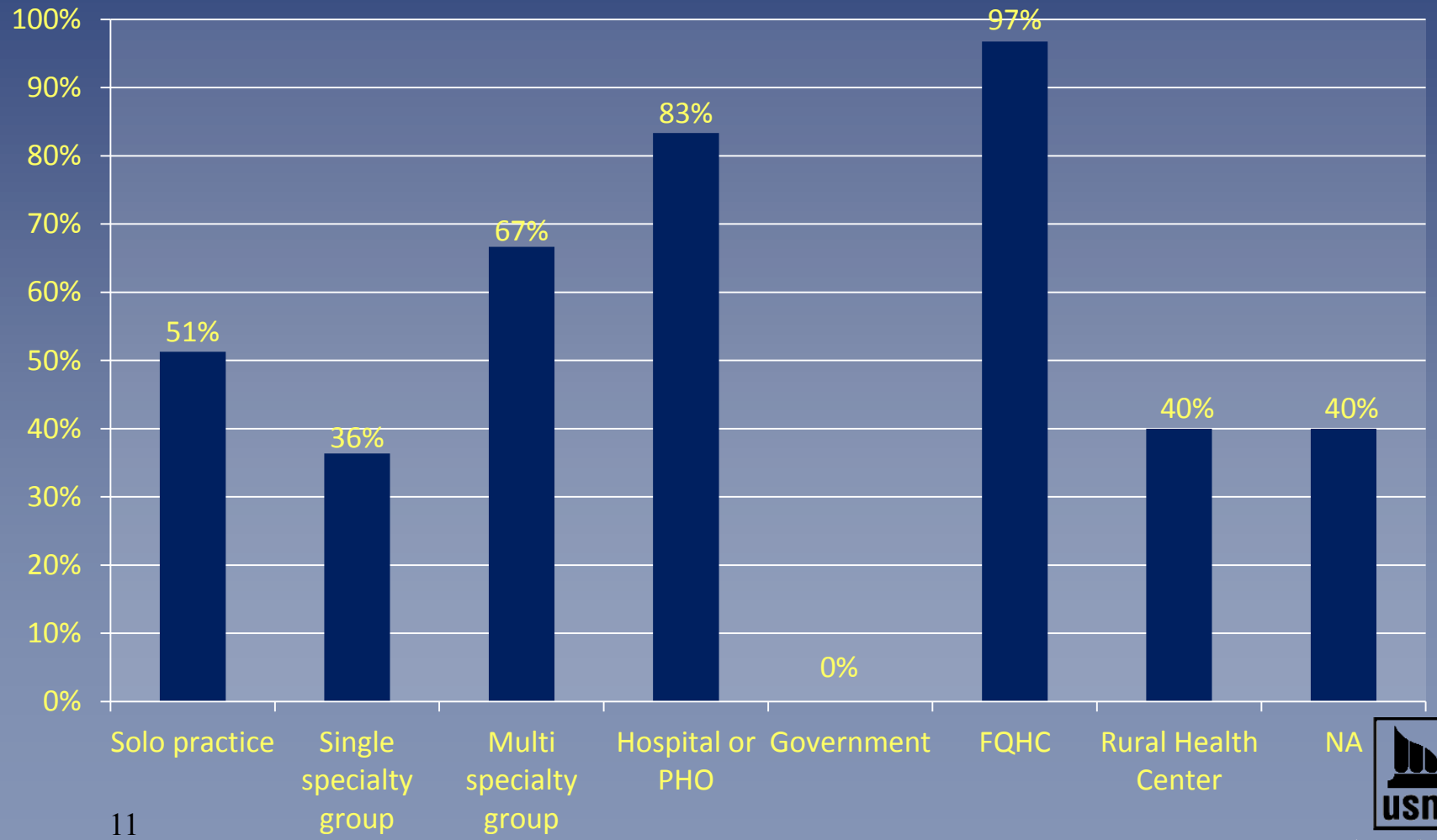
Percent EHR Adoption in All or Some Areas of Pediatric and Family Practices by Organizational Ownership (N = 95)



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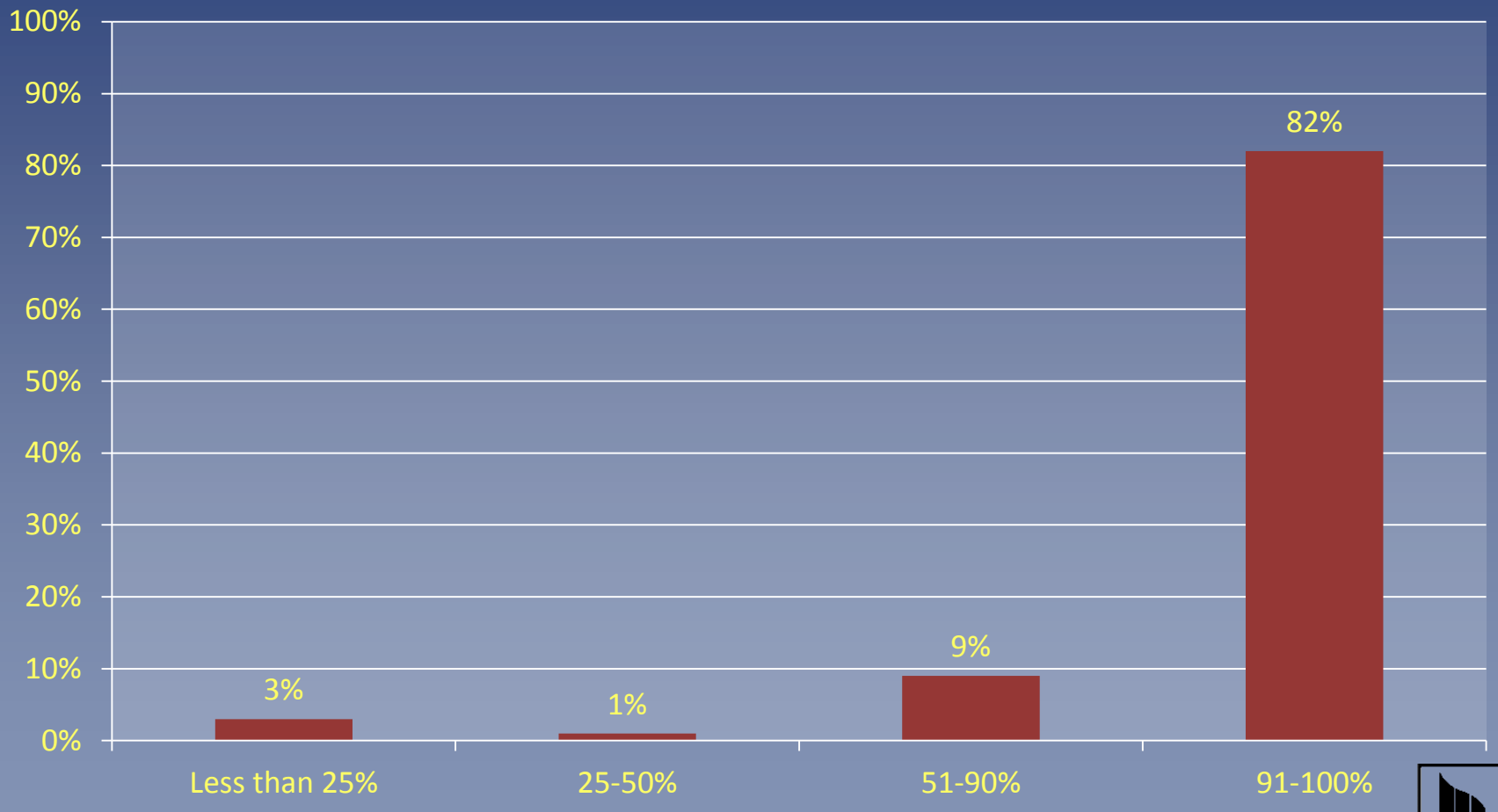
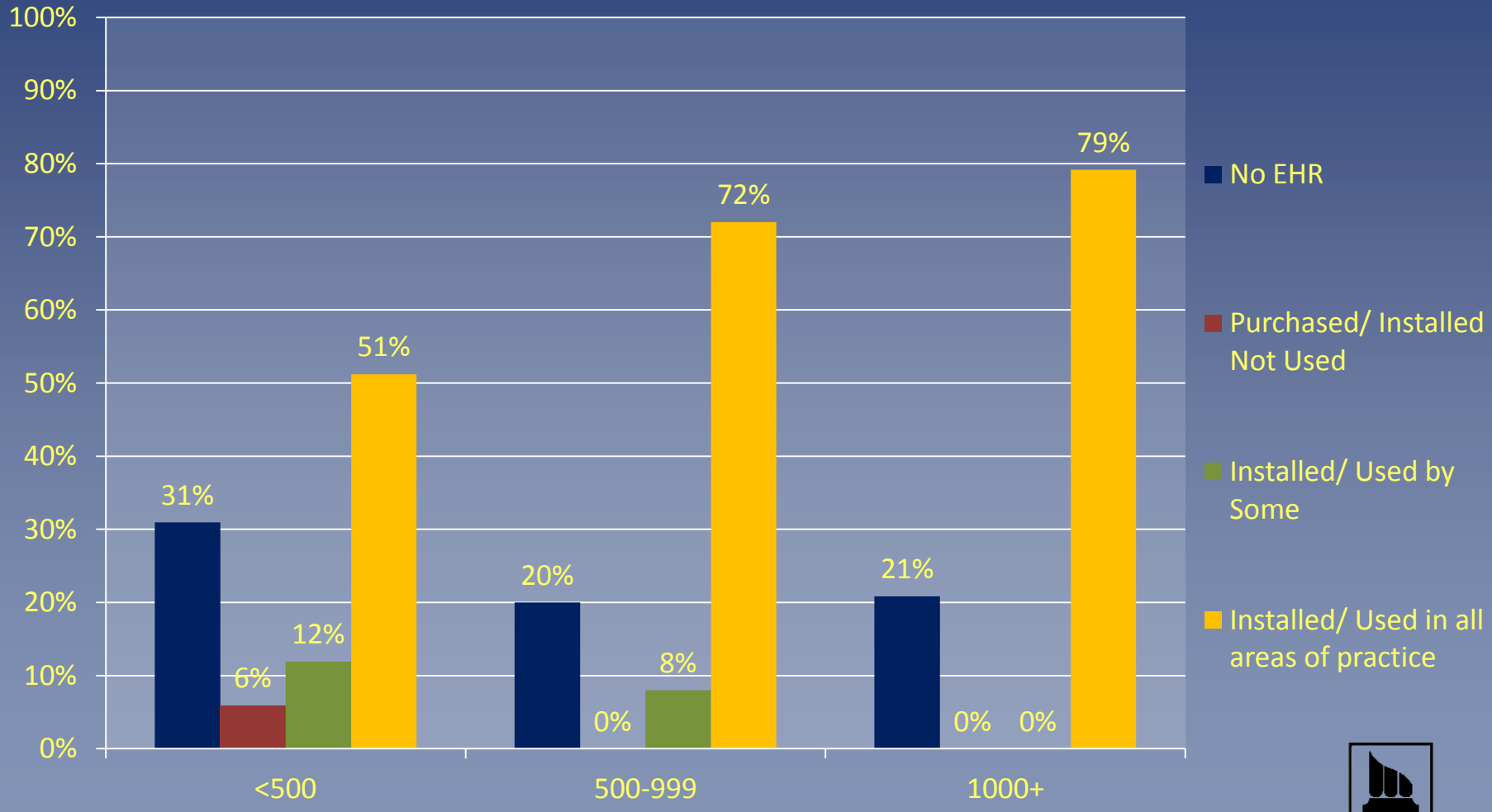
Percent of Providers Estimated to be Using EHRs in Pediatric and Family Practices that have them (N = 95)



Percent of Pediatric and Family Practices with EHRs by Volume of Children Served



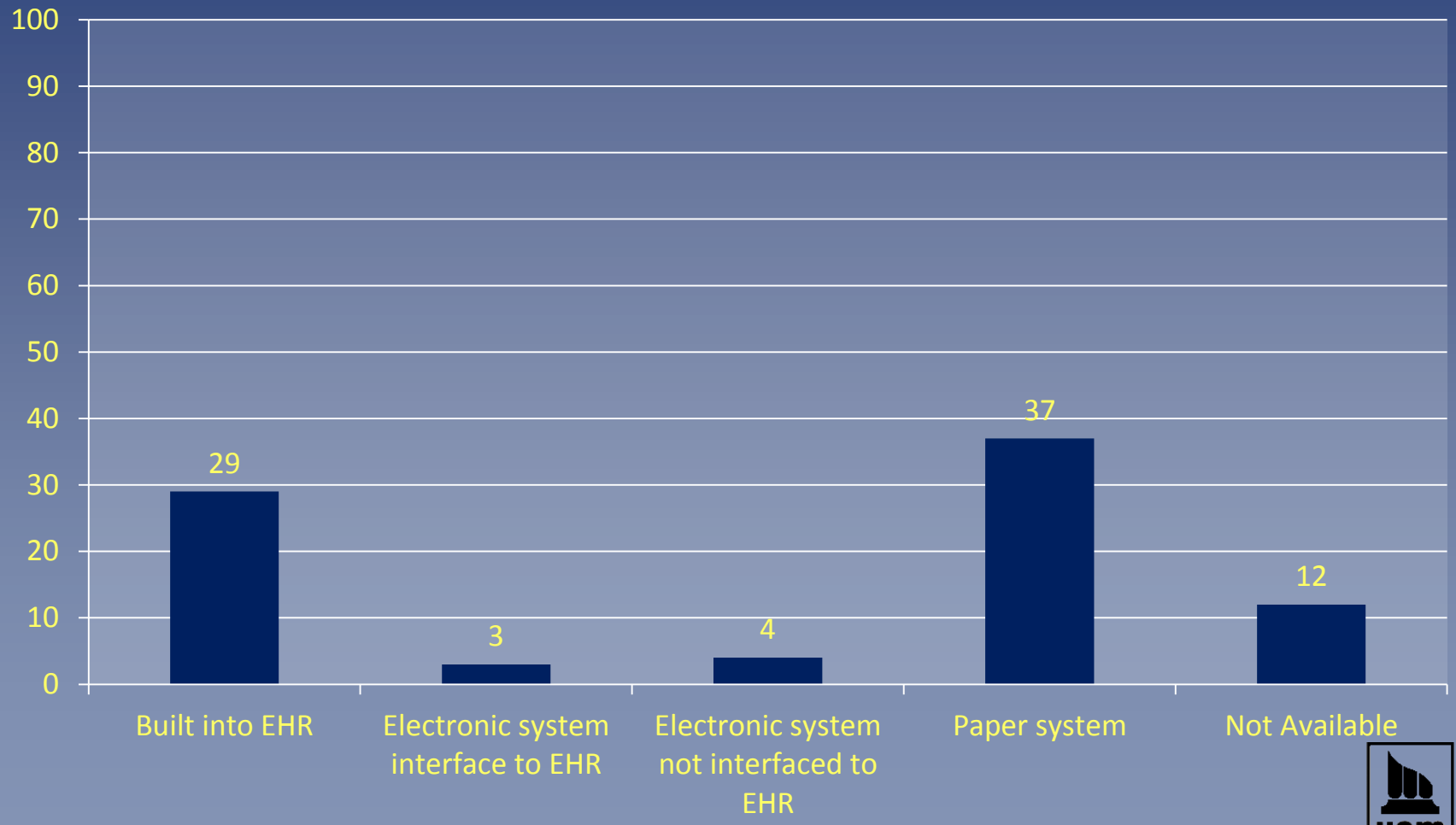
EHR Systems in Use in Responding Pediatric and Family Practices (N = 95)

EHR Company (May include multiple products/versions)	# of Practices	% of Practices
Allscripts product	15	16%
GE Centricity	15	16%
NextGen	14	15%
EPIC	13	14%
eClinicalWorks	7	7%
HealthPort	7	7%
Amazing Charts	5	5%
e MDs	2	2%
EHS	2	2%
LSS Data Systems	2	2%
McKesson	2	2%
SoapWare	1	1%
Spring Medical System	1	1%
Other/ Not Listed	9	9%

EHR Functions in Responding Pediatric and Family Practices with EHRs (N = 86)

Function	# of Practices	% of Practices
Incorporate lab results - 50% or more	73	82
Maintain up to date problem lists for each patient - 80% or more	73	81
Track Height for 80% or more of patients	68	76
Track Weight for 80% or more	80	89
Track Blood Pressure for 80% or more	81	90
Track BMI	65	73
Plot Growth Charts for Children 2-20 including BMI	65	73
Track tobacco use of patients 13 and up	55	63
Provide patients with electronic copy w/in 48 hrs	22	25
Provide patients with electronic copy more than 48 hrs	10	11
Provide patients w/ electronic access to health records	6	7
Provide clinical summaries for patients for each office visit/ 80% of time	19	22
Care plan in EHR - 80% of patients needing care coordination	19	21

Pediatric and Family Practice EHR Integration for Bright Futures Forms (N = 85)



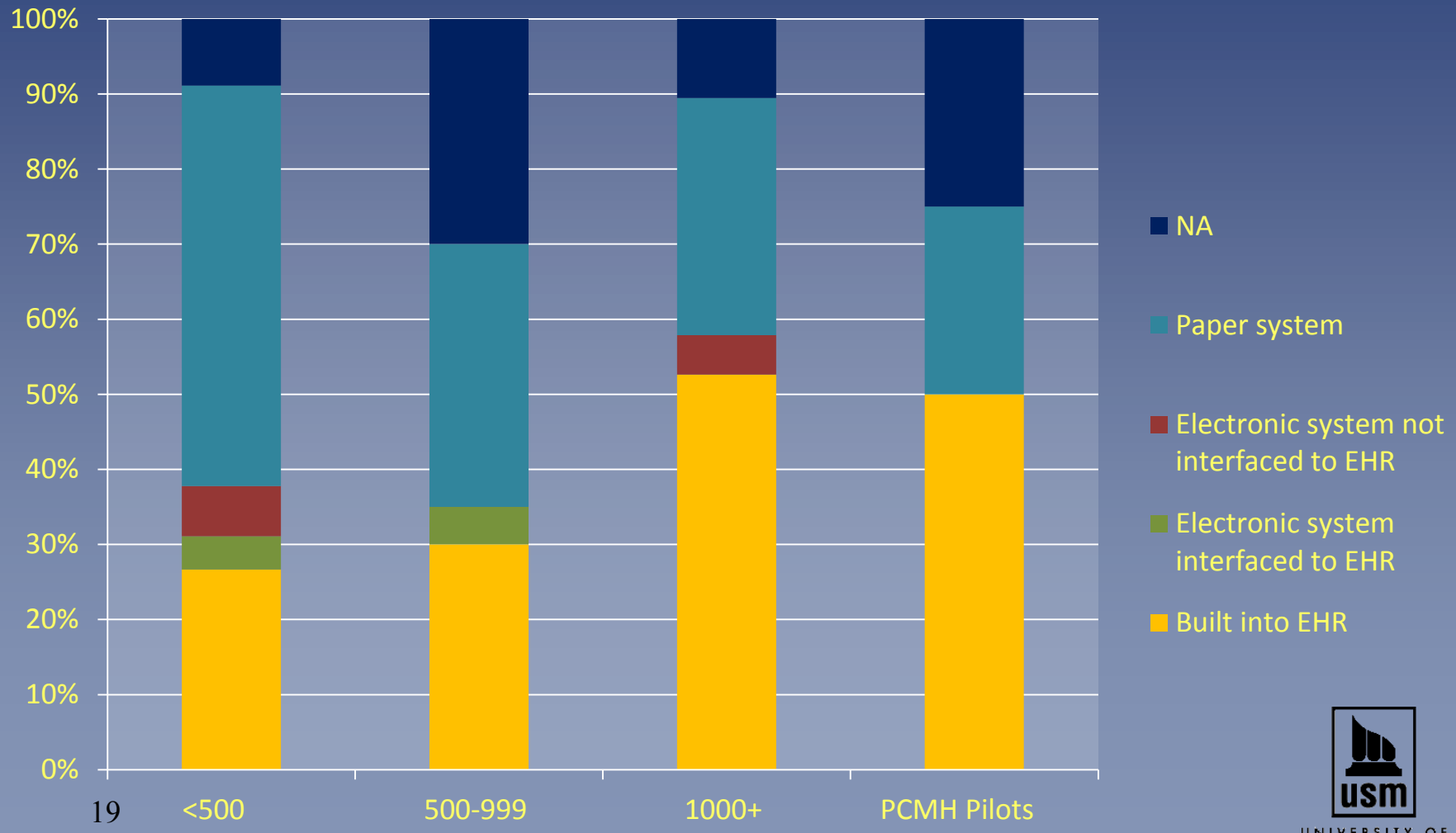
Practices with Bright Futures Interfacing or Built into EHR (N = 28)

Practice Name	EHR system
Lifespan Family Healthcare, LLC	McKesson Provider Technologies - Practice Partner 9.3
Seaport Family Practice	McKesson Provider Technologies - Practice Partner 9.3
Mechanic Falls Family Practice	GE Health Care Centricity EMR
Penobscot Nation Health Department	GE Healthcare - Centricity Enterprise 6.7
Brunswick Pediatrics	LSS Data Systems (Lake Superior Software) - Medical and Practice Management (MPM)Suite Client Server 5.56
Swift River Family Medicine	GE Health Care Centricity EMR
Elsemore Dixfield Family Medicine	GE Health Care Centricity EMR
Arnold Memorial Medical Center, PA	e-MDs - e-MDs Solution Series 6.3
Penobscot Pediatrics	GE Healthcare - Centricity EMR 9.2
Lincoln Medical Partners - Wiscasset	EpicCare Ambulatory EMR Spring 2008
Midcoast Pediatrics	GE Healthcare - Centricity EMR 9.2

Practices with Bright Futures Built into or Electronic Interface with EHR (cont)

Practice Name	EHR
Penobscot Community Health Center	GE Healthcare - Centricity EMR 9.2
Old Town Family Practice	GE Healthcare - Centricity EMR 9.2
Fish River Rural Health---Eagle Lake	HealthPort EMR V9.0
Fish River Rural Health---Fort Kent	HealthPort EMR V9.0
Capehart Community Clinic	GE Healthcare - Centricity EMR 9.2
Summer Street Clinic	GE Healthcare - Centricity EMR 9.2
Winthrop Family Medicine	AllscriptsMisys, LLC TouchWorks EHR 10.1.1
Kennebec Family Practice	AllscriptsMisys, LLC TouchWorks EHR 10.1.1
Cutler Health Center	GE Healthcare - Centricity EMR 9.2
Way to Optimal Weight	GE Healthcare - Centricity EMR 9.2
New Horizons OMM/Family Practice	Centricity EMR
Kennebec Pediatrics	AllscriptsMisys, LLC TouchWorks EHR 10.1.1
KVHC Patten	HealthPort EMR V9.0
KVHC Island Falls	HealthPort EMR V9.0
KVHC Millinocket	HealthPort EMR V9.0
KVHC Houlton	HealthPort EMR V9.0
Husson pediatrics	GE Healthcare - Centricity EMR 9.2

Percent of Pediatric and Family Practices with EHR Integration for Bright Futures by Practice Size and PCMH Pilots



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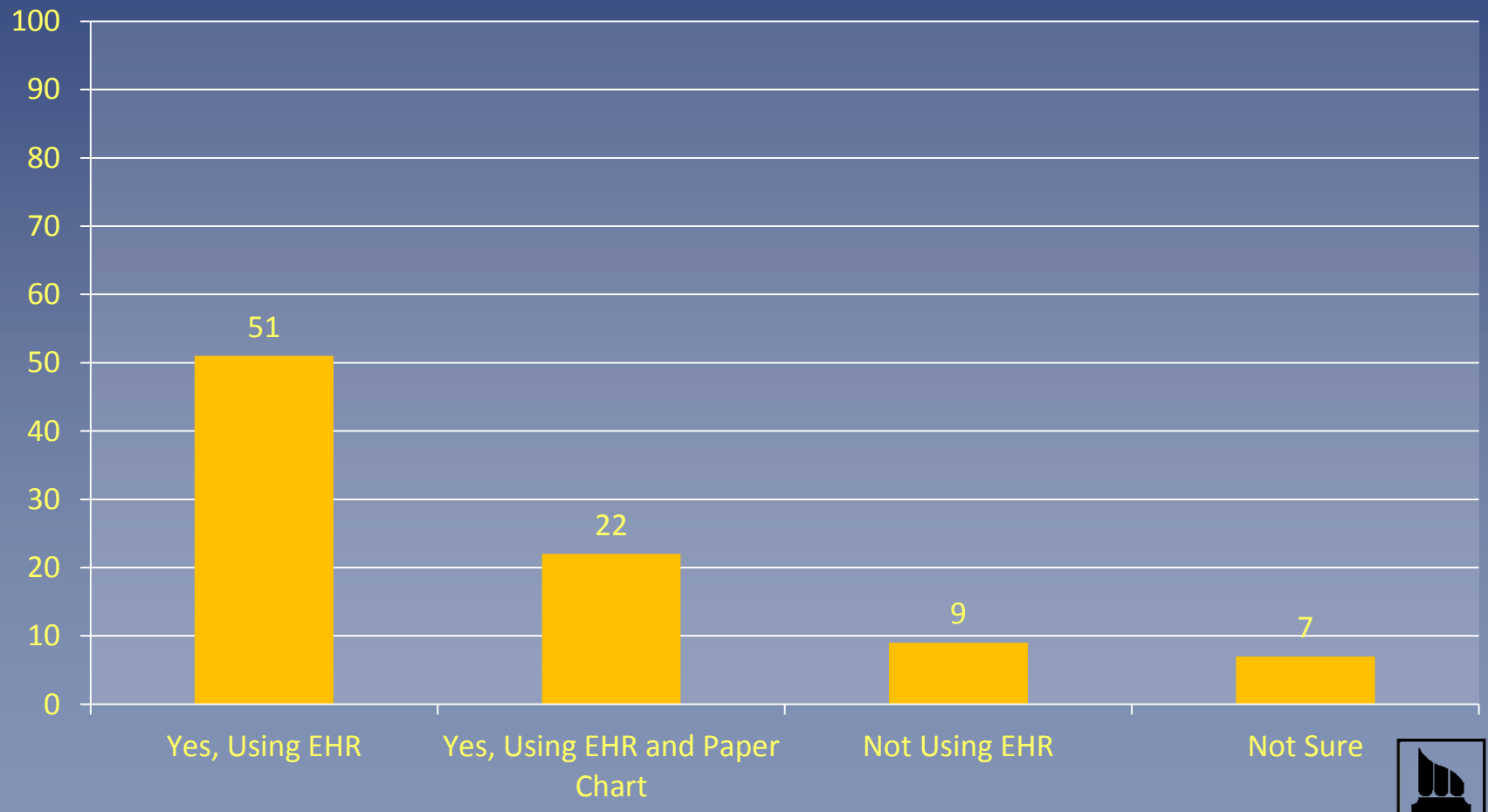
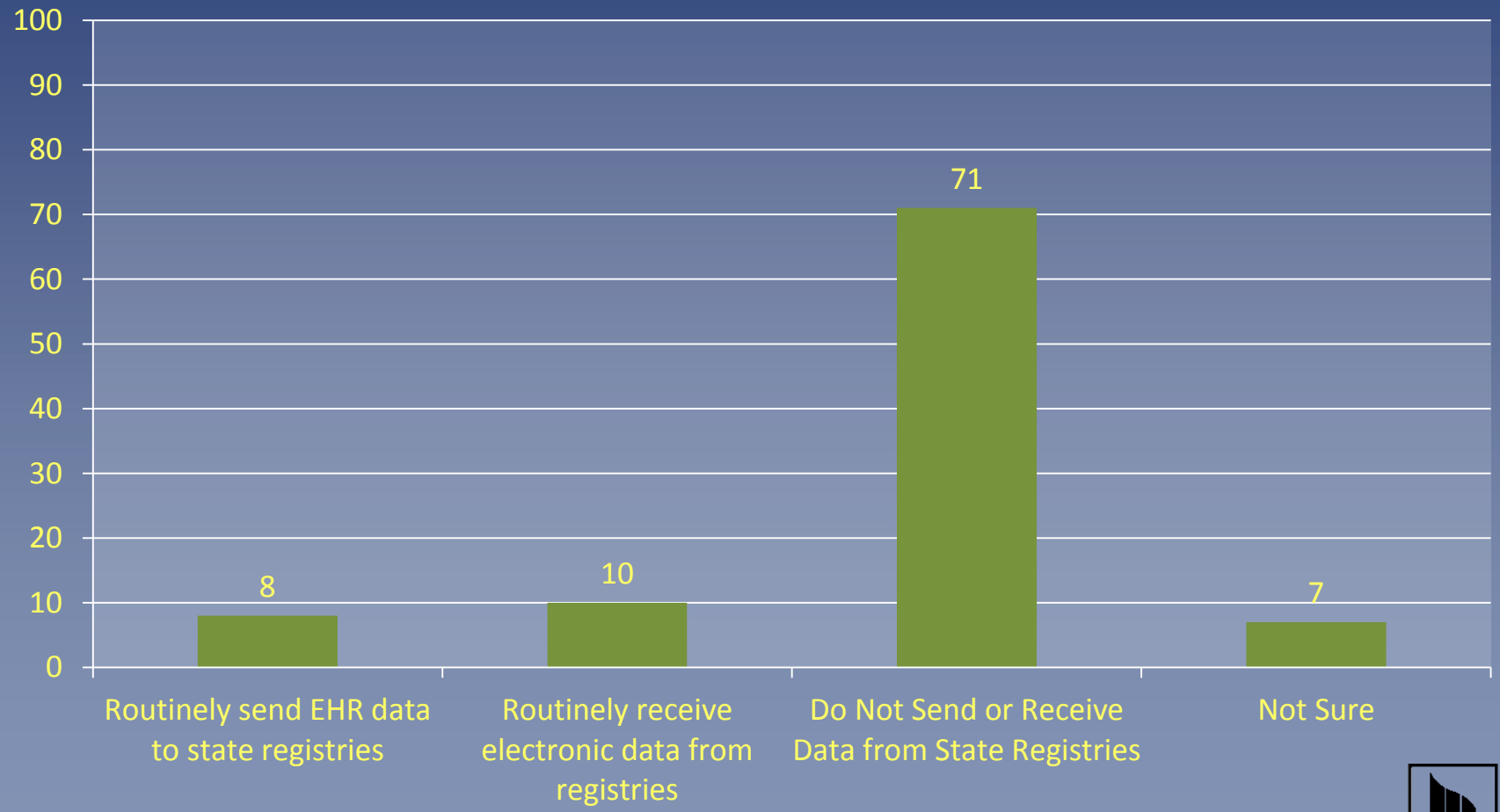
Use EHR to Collect and Submit to Quality Information to an Outside Organization by Responding Pediatric and Family Practices (N = 89)



Information Exchange between EHR and State Immunization Registries in Responding Pediatric and Family Practices (N = 96)

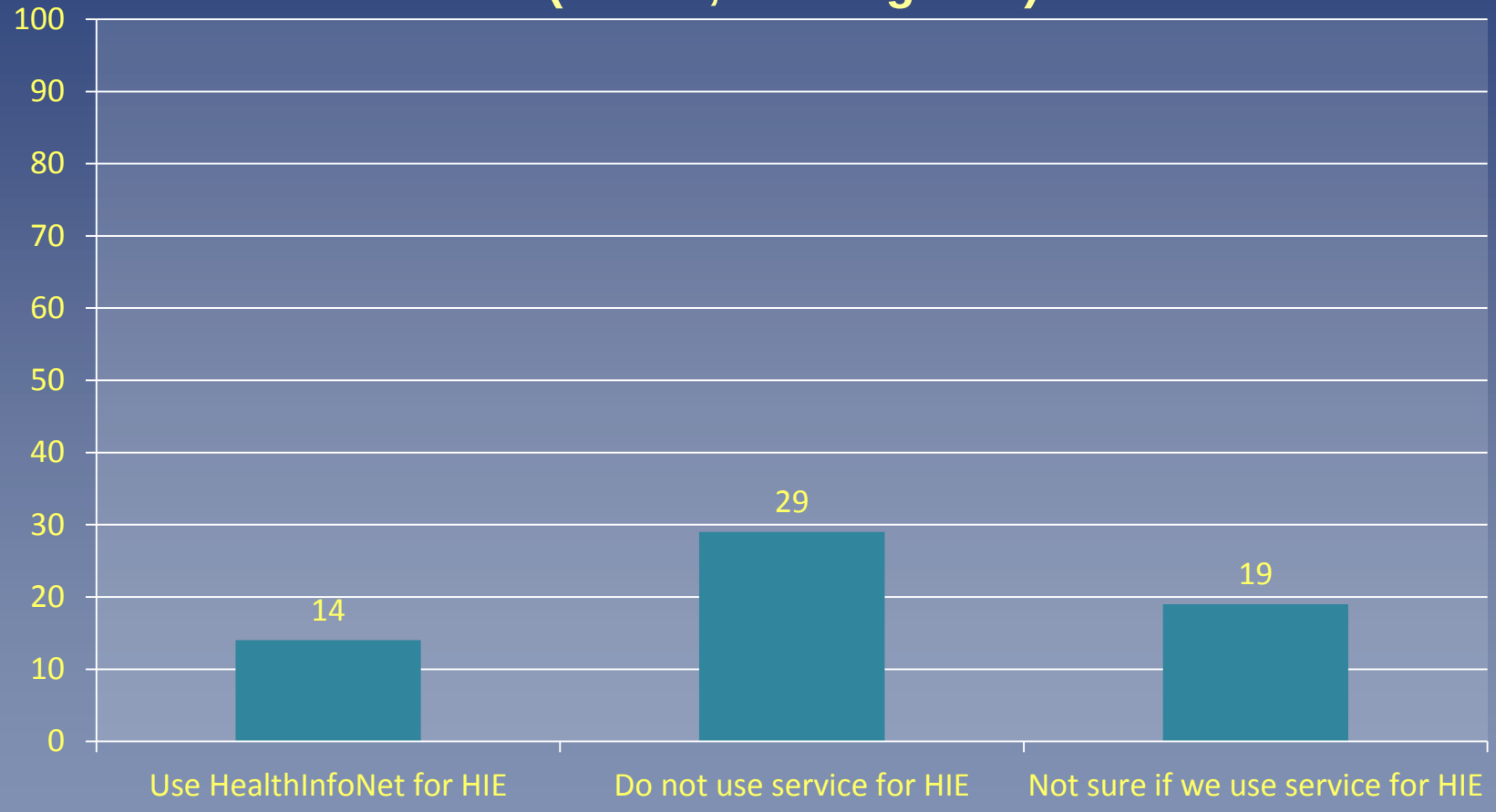


Practices Exchanging Data between EHR and State Immunization Registry (N = 14)

Practice Name	Electronic Health Record	Direction
Aroostook Wellness	MacPractice	Send
Seaport Family Practice	McKesson Provider Technologies - Practice Partner 9.3	Send and Receive
Maine Medical Partners- Saco Pediatrics	Epic Systems Corporation - EpicCare Ambulatory EMR Spring 2007	Receive
MGMC Augusta Family Medicine	AllscriptsMisys, LLC - TouchWorks Electronic Health Record 10.1.1	Send and Receive
Waterville Family Practice, PA	AllscriptsMisys, LLC - Allscripts Professional EHR 9.0	Send
Mechanic Falls Family Practice	GE Health Care Centricity EMR	Send and Receive
Penobscot Nation Health Department	GE Healthcare - Centricity Enterprise 6.7	Send
Sebasticook Family Doctors	NextGen Healthcare Information Systems, Inc - NextGen EMR 5 .4.29	Send
Brunswick Pediatrics	LSS Data Systems (Lake Superior Software) - Medical and Practice Management (MPM)Suite Client Server 5.56	Send and Receive
Strong Area Health Center	NextGen Healthcare Information Systems, Inc - NextGen EMR 5.4.29	Receive
Redington Pediatrics	AllscriptsMisys, LLC - Allscripts Professional EHR 8.2	Receive
Kennebec Pediatrics	AllscriptsMisys, LLC - TouchWorks Electronic Health Record 10.1.1	Receive
Sebasticook Family Doctors – Dexter	NextGen Healthcare Information Systems, Inc - NextGen EMR 5 .5.27	Receive
Sebasticook Family Doctors – Pittsfield	NextGen Healthcare Information Systems, Inc - NextGen EMR 5.5.27	Receive

Use of Health Information Exchange (HIE) in Responding Pediatric and Family Practices

(N = 96, Missing = 33)



Challenges for Pediatric and Family Practices to Secure Health Information Exchange (N = 95)

CHALLENGE/ISSUE	# of Practices	% of Practices
HIPAA Concerns	48	51%
Competing priorities	32	34%
Access to technical support	27	28%
Unclear return on investment	23	24%
Insufficient information on options	22	23%
Subscription rates too high	19	20%
Other Challenges	7	7%
No Challenges	7	7%
Outside agencies not allowed to receive the data	5	5%
Incompatibility between vendors/products	4	4%

Summary Findings

- EHR adoption is higher in pediatric and family practices than in ambulatory settings overall (@65% compared to 49%).
- Adoption is higher in practices serving larger numbers of children.
- Many different EHRs are being used – AllScripts, EPIC, and GE EHR products being used by 50% of responding practices; but all different products. Remaining 50% dispersed across many different EHR companies/products.

Summary Findings (cont.)

- More than 33% of pediatric and family practices reported having Bright Futures built into EHR or have an electronic system interfaced with EHR.
- Remaining practices largely using paper-based systems.
- PCMH pediatric pilots and high volume practices more likely to have BF built into EHR.
- Very few practices exchange EHR data with state immunization registries or HealthInfoNet (<15%).

Improving Outcomes for Children (IHOC)

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