

Environmental Scan

DOQ-IT

Doctors Office Quality – Information
Technology

October 3, 2005





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DOQ-IT

- Primary Care physicians only
 - Internal medicine
 - Family practice
 - General practice
- At least 10-12 practices
 - Small (1-3 physicians per site) $\geq 40\%$
 - Medium (4-8 physicians per site) $\geq 40\%$
 - Small (>9 physicians per site) $\geq 20\%$
- No more than 25% can have an installed EHR

Practice Survey

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Survey Data

- List of phone numbers from medical society directory.
 - Primary, secondary or tertiary specialty of internal medicine, family medicine, general practice.
- Deleted all duplicates.
- Eliminated all practice sites that did not have at least one physician who met the specialty criteria.
- 203 practice sites
 - 158 completed survey

Survey Definitions

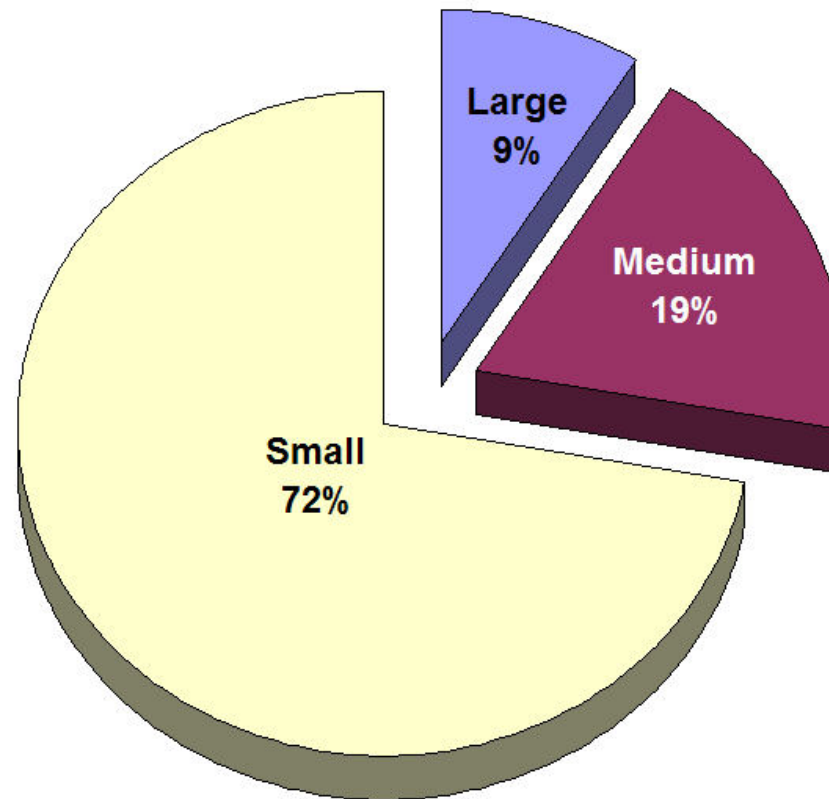
- EHR definition:
 - allows entry of progress notes.
 - provides decision support within the patient encounter.
 - provides ambulatory Computerized Physician Order Entry (CPOE) for laboratories and drugs.
 - has eLab, eRx, and eRegistry or care management capabilities.
- eLab, eRx, and eRegistry scored separately (stand-alone) if EHR didn't include all of the above.

Survey Results

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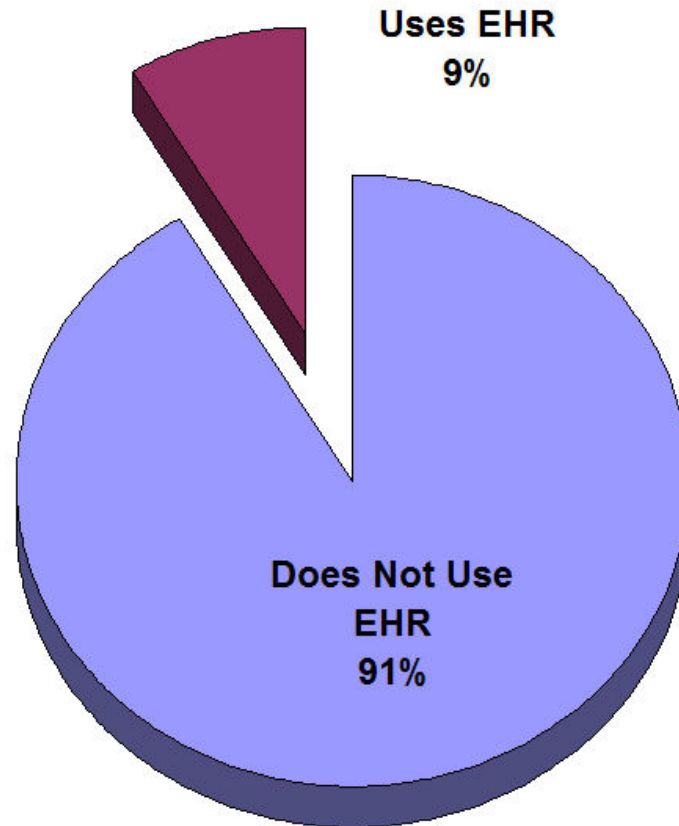


Practice Size



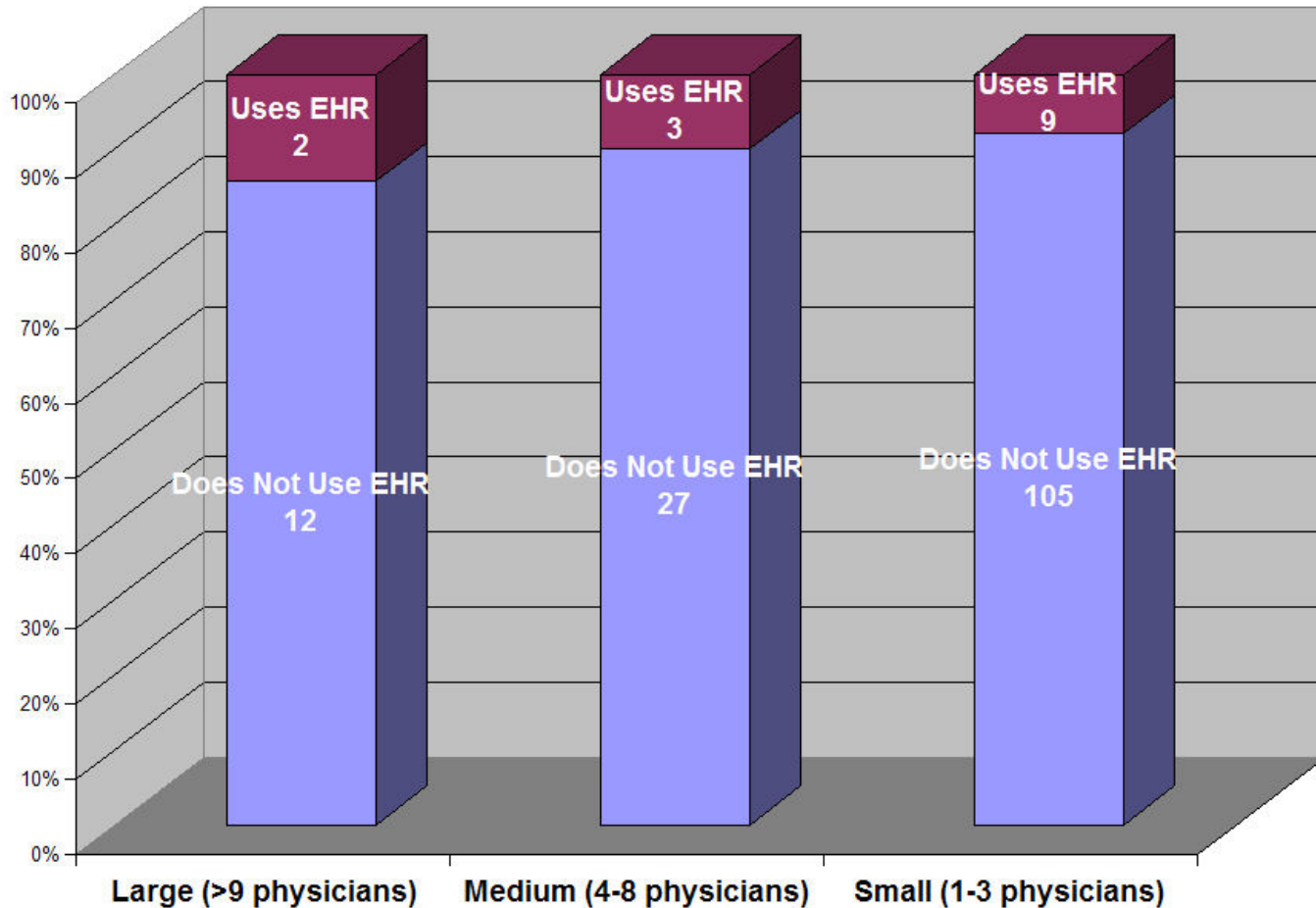
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EHR Usage



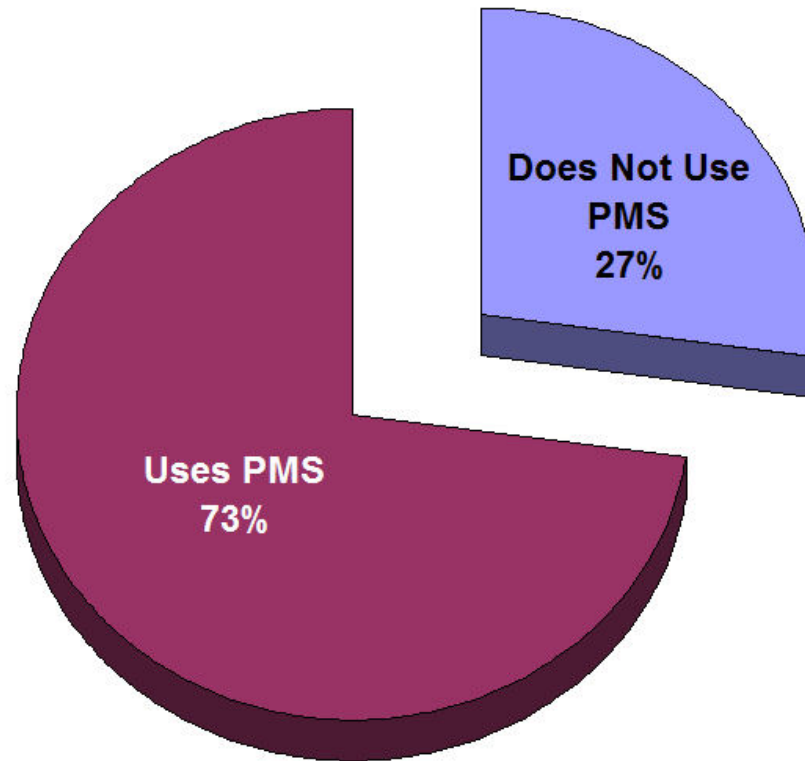
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EHR Usage by Practice Size



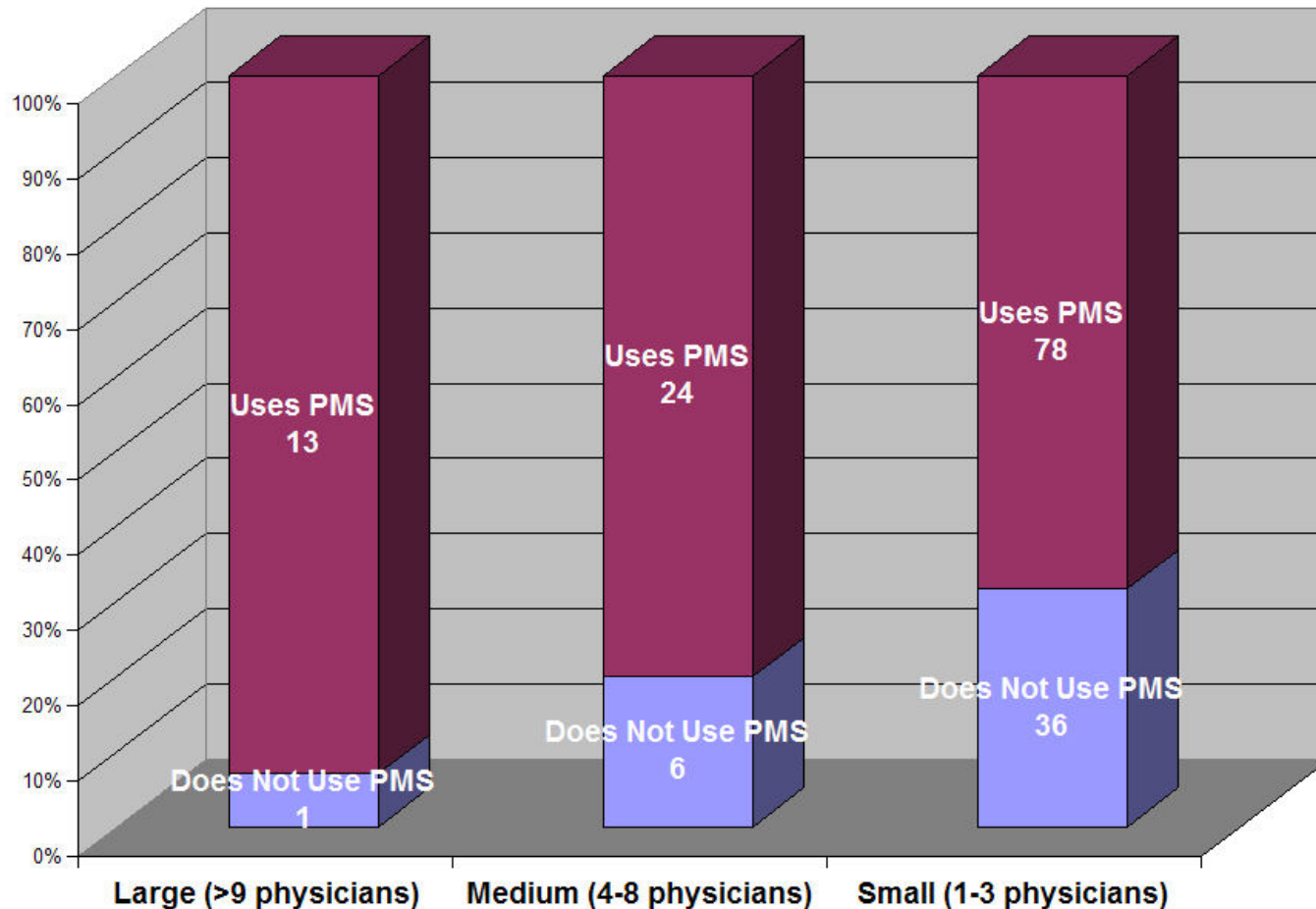
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PMS Usage



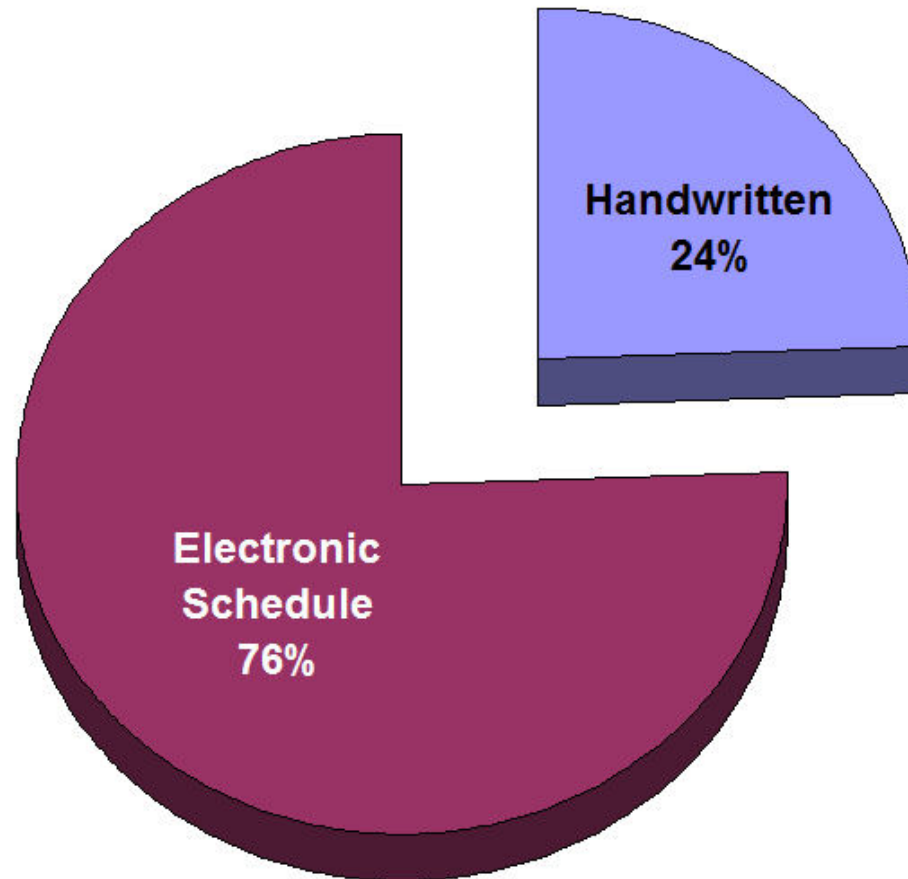
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PMS Usage by Practice Size



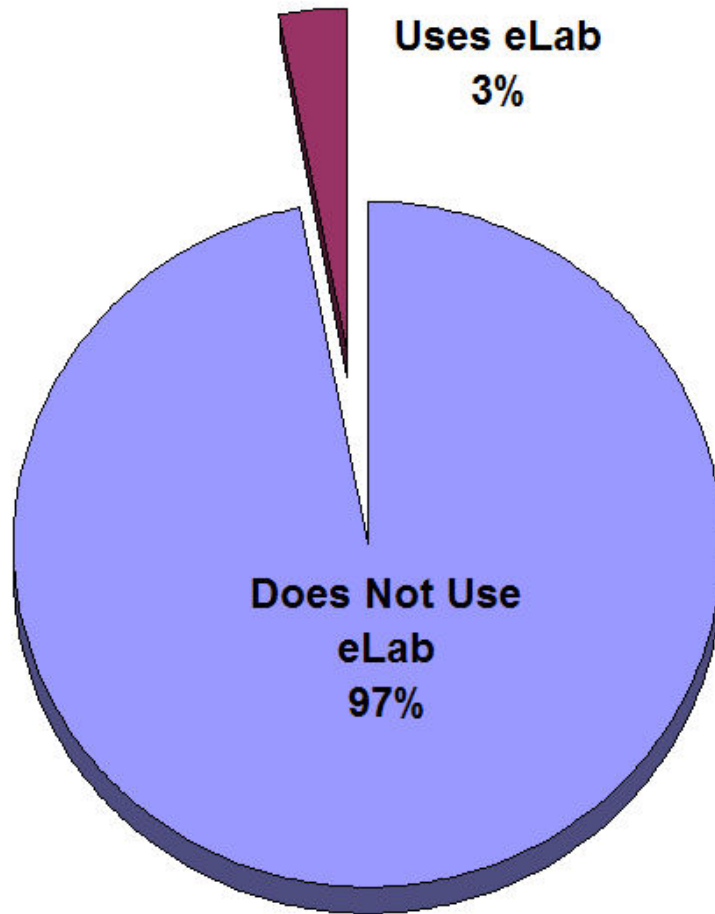
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Uses Electronic Schedule



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eLab Usage

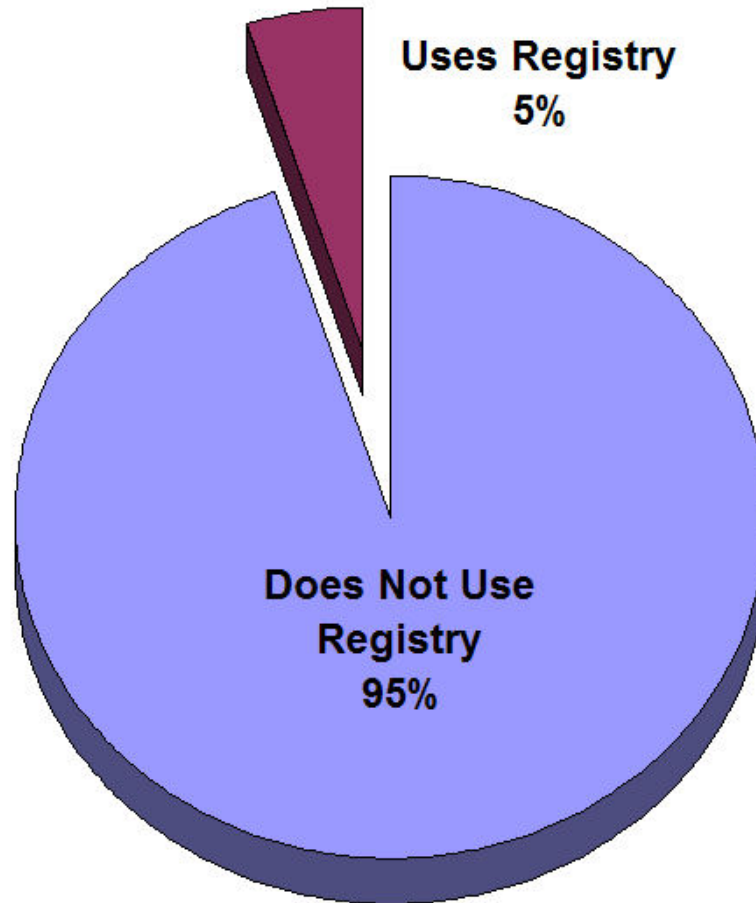


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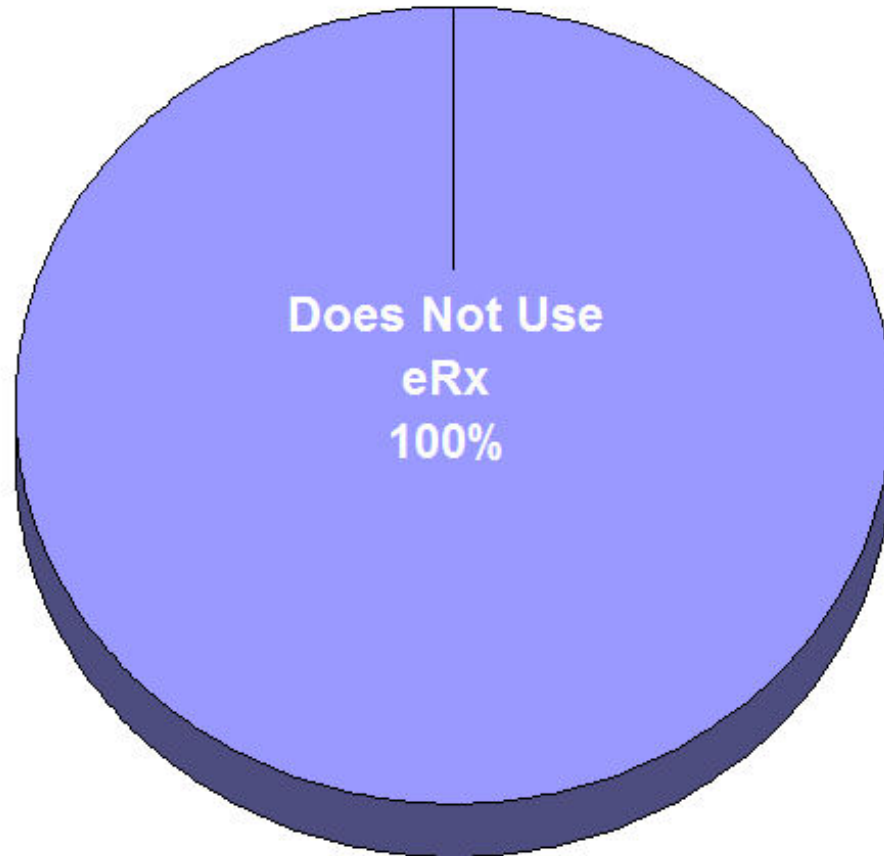
**Mountain-Pacific
Quality Health Foundation**

eRegistry Usage



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eRx Usage



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Pharmacy

- 316 licensed pharmacies
 - 229 are community retail pharmacies
 - 81 (35%) are chain pharmacies
 - 145 (65%) are independent pharmacies
- Most of the chain pharmacies and a small proportion of independent pharmacies are capable of electronic receipt of prescriptions by digital or electronic signature.
- Most, if not all, electronic prescribing is done by fax.
- E-prescribing vendors have felt that the Montana Pharmacy Practice Act does not favorably allow for electronic signature transmission.
- The Montana Board of Pharmacy is in the process of publishing rules allowing for fully functional e-prescribing authority. These rules will allow e-prescribing of all legend drugs and Schedules III through V of the Controlled Substance Act.

Hospital Survey

- 61 Medicare Acute Care Hospitals
 - 42 CAH
 - 16 PPS hospitals
 - 3 PHS hospitals
- 12 responded to a brief survey by MPQHF
 - 4 reported CPOE use
 - 3 provide access to lab and x-ray data to physician practices
 - 3 have EHR for on campus physician practices

Grants

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Agency for Healthcare Research and Quality (AHRQ)

- **Planning the Implementation of HIT in a Rural Setting:**
 - Plans the development and implementation of a health IT infrastructure throughout three rural counties including high-speed Internet access, CPOE, CDSS, EHR and continuity of care record templates.
 - **Principal Investigator:** William Reiter
 - **Applicant Institution:** Community Hospital of Anaconda, Inc., Anaconda, MT
- **Decreasing ADEs in Montana Frontier Critical Access Hospitals through HIT:**
 - Assesses opportunities to decrease adverse drug events and medication errors in frontier Montana Critical Access Hospitals; identifies appropriate, cost effective health IT solutions to challenges in medication use.
 - **Principal Investigator:** Kipman Smith
 - **Applicant Institution:** Townsend Health Systems, Inc., Townsend, MT
- **Home Heart Failure (HF) Care Comparing Patient-Driven Technology Models:**
 - Assesses the impact of health IT on clinical and financial outcomes for patients with symptomatic congestive heart failure living in a rural area, including telemonitoring of vital signs and symptoms, evaluation of Technology Supported Case Management, and Technology Support Self Management.
 - **Principal Investigator:** Lee Goldberg
 - **Applicant Institution:** St. Vincent Healthcare Foundation, Billings, MT

Center for Medicare & Medicare Services (CMS)

- **Medicare Physician Group Practice Demonstration:**
 - Deaconess Billings Clinic is one of ten physician groups selected nationally to participate in this demonstration.
 - Deaconess Billings Clinic will focus on reducing the need for inpatient admissions and emergency management of chronically ill Medicare fee-for-service beneficiaries through care management strategies.
 - The strategies rely on:
 - electronic medical records and computerized physician order entry systems;
 - case management programs;
 - development and dissemination of system-wide disease management protocols and practices focusing on beneficiaries with diabetes, CHF, CAD, and preventive services;
 - improved coordination of end of life care.

Organizations

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National Center for Healthcare Informatics

- Joint venture between the University of Montana - Montana Tech and St. James Healthcare
- Intended to promote the use of integrated HIT in Montana communities.
- Montana Tech offers the first undergraduate degree in Health Care Informatics in the United States.
- Focusing efforts to create a Regional Health Information Organization (RHIO) in Montana.

Telemedicine

- **Montana Healthcare Telecommunication Alliance (MHTA):**
 - MHTA is a national model recognized for collaboration and innovation. Stakeholders from healthcare organizations across Montana work together to promote advancements in telecommunications through video-conferencing and telemedicine.
 - MHTA is a network of networks:
 - Eastern Montana Telemedicine Network
 - METNET – State of Montana
 - Partners in Health Telemedicine Network
 - Realizing Education and Community Health
 - St. Patrick Hospital
 - FORTH (Fiber Optic Rural TeleHealth)
 - Montana Advanced Telecommunications Alliance

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