

THE CENTER
for
Improving Medication Management

A collaborative of providers, payors, employers and pharmacies

E-Prescribing Overview: Improving the Medication Management Process

ERIC Health Policy Conference

June 11, 2008

The Center for Improving Medication Management

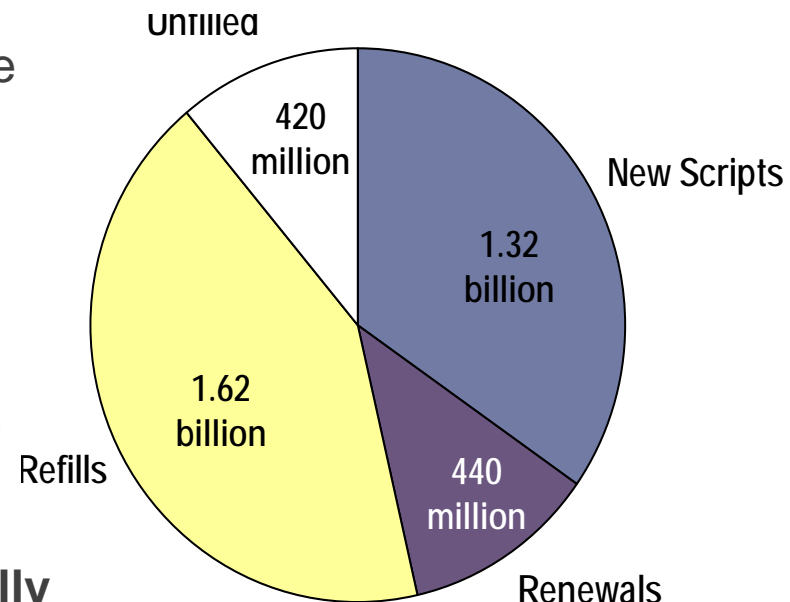
- The Center for Improving Medication Management is a **collaborative forum** to demonstrate the value of pharmacy interoperability for the purpose of improving the medication management process
- The Center implements programs that accelerate the automation of the prescribing process through:
 - Adoption and use electronic prescribing technologies with physician-pharmacy interoperability
 - Testing of innovative approaches to improve patient compliance with prescribed medications
 - Managing research projects to evaluate and establish best practices

Helping physicians, pharmacists, patients and payers/PBMs optimally use technology to improve the way medications are evaluated, prescribed, approved, filled, consumed, refilled, adhered to, and measured for outcomes.

High Volume of Prescriptions...

Prescription growth in U.S.

- 823 million visits to physician offices in 2000¹
- 4 out of 5 patients who visit a physician leave with at least one prescription²
- 65% of the US population use a prescription medication each year³
- Over 3 billion prescriptions are dispensed each year⁴
- Number is expected to rise to over 4.1 billion by 2010⁴
- **15% of physicians in the United States prescribe 50% of the prescriptions annually**
- **30% of physicians in the United States prescribe over 80% of the prescriptions annually**



3.38 Billion Total Filled Prescription Transactions in 2005

- (1) Pastor PN et. al. Chartbook on trends in the health of Americans. Health, United States, 2002. National Center for Health Statistics. 2002.
- (2) The chain pharmacy industry profile. National Association of Chain Drug Stores. 2001.
- (3) Agency for Healthcare Research and Quality. MEPS Highlights #11: distribution of health care expenses, 1999.
- (4) NACDS estimates.

Medication Errors: What the latest research says...

- **September 10, 2007 issue of the *Archives of Internal Medicine***
 - The number of serious adverse drug events more than doubled between 1998 and 2005 in the U.S., as did the number of related deaths
 - From 1998 to 2005, the number of reported serious adverse drug events increased 2.6-fold from 34,966 in 1998 to 89,842 in 2005.
 - The number of fatal adverse drug events increased 2.7-fold during the same time period, from 5,519 in 1998 to 15,107 in 2005.
 - The number of adverse events increased four times faster than the total number of outpatient prescriptions, which rose from 2.7 billion to 3.8 billion during that time frame.
 - Drugs related to safety withdrawals were a small part of the picture
 - “...We saw increases in drugs whose risks we've really known about and should be able to manage. We've had insulin for 50 to 60 years, yet adverse events are increasing rapidly...”
 - study lead author Thomas Moore, of the Institute for Safe Medication Practices

Defining “Electronic Prescribing”

- Electronic prescribing has been around for many years, and the term has meant different things to different people.
- Today electronic prescribing generally refers to the solution sets
 - **Stand-alone** prescribing-focused solution
 - Integrated module within an **EHR**
- An evolving approach to the definition of electronic prescribing is to view it as a set of tools that target improving the medication management process
 - Clinical decision support (drug-drug, drug-allergy interactions, patient medication history, formulary and pharmacy benefits)
 - Writing of the prescription
 - Transmission between prescriber and dispenser
 - Dispensing of the medication
 - Support for its administration
 - Monitoring of the impact

Medicare E-prescribing and the Prescription Drug Program Final Rule

“E-prescribing means the transmission, using electronic media, of prescription or prescription-related information between a prescriber, dispenser, pharmacy benefit manager, or health plan, either directly or through an intermediary, including an e-prescribing network. E-prescribing includes, but is not limited to, two-way transmissions between the point of care and the dispenser.”

SureScripts Mission: Improve the Prescribing Process

- **Driven by single mission**
 - Improve the prescribing process through a focus on **Safety, Efficiency and Quality**
- **Industry owned LLC formed by the pharmacy associations representing nation's 55,000 pharmacies**
 - Incorporated August 2001
 - Pharmacy membership organization
 - Two sources of operating capital
 - Fees from pharmacy transactions
 - Membership
 - **No charge to physicians or their vendors**
 - **Neutral entity**
 - No advertising or commercial influence
 - **Protect patient choice of pharmacy, physician choice of therapy**



Over 95% of the nation's pharmacies have completed the certification process required to connect to the Pharmacy Health Information Exchange™, operated by SureScripts

Potential value created from process improvements

- **Improves Individual Empowerment and Satisfaction**
 - Improves the patient-physician relationship
 - Improves the patient-pharmacist relationship
 - Improves an individual's sense of self-efficacy and intrinsic motivation relative to medication therapies
 - Lowers an individual's cost of medication, e.g., lower co-pays
 - Increases an individual's satisfaction with the healthcare experience, e.g., shorter wait times in the pharmacy
- **Improves Health Outcomes**
 - Improves clinical outcomes, e.g. lower BP, cholesterol, HgA1C
 - Improves patient safety, e.g. ADEs
 - Improves functional outcomes, e.g., absenteeism / presenteeism
- **Improves Efficiency and/or Lowers Costs**
 - Improves the efficiency of the care process
 - Increases availability of an individual's health benefit in the care process
 - Decreases utilization of unnecessary or inappropriate care

Example Benefits

- *Increases patient adherence to prescribed medications*
- *Increases likelihood of patient pick up of first fill*
- *Improves operating efficiencies of physician practices, particularly smaller practices with high prescribers*
- *Can potentially facilitate prescriber requests for prior authorizations and step therapy documentation*
- *Improves patient understanding of the link between medication therapy and condition*
- *Increases appropriate conversation of side effects between provider and patient*
- *Increases use of prescriber favorites including proper dosing*
- *Creates new sources of data for outcomes and marketing studies*

Errors can be Prevented, Efficiencies Gained, and Savings Realized

- More than 1.5 million Americans are injured annually by medication errors. More than 25% of these injuries are preventable¹
- According to the Institute for Safe Medication Practices, many errors result from:
 - Miscommunication due to illegible handwriting
 - Unclear abbreviations and dose designations
 - Unclear telephone or verbal orders
 - Ambiguous orders and fax-related problems
- In July of 2006, the Institute of Medicine recommended that all prescriptions be written electronically by 2010¹
- Eliminate many calls between pharmacies and practices to clarify information, authorize renewals and free up time for patient care – save time, save money
- Payers estimate savings for members of \$20 to \$25 per prescription if the provider selects lower cost drug when prompted by formulary message

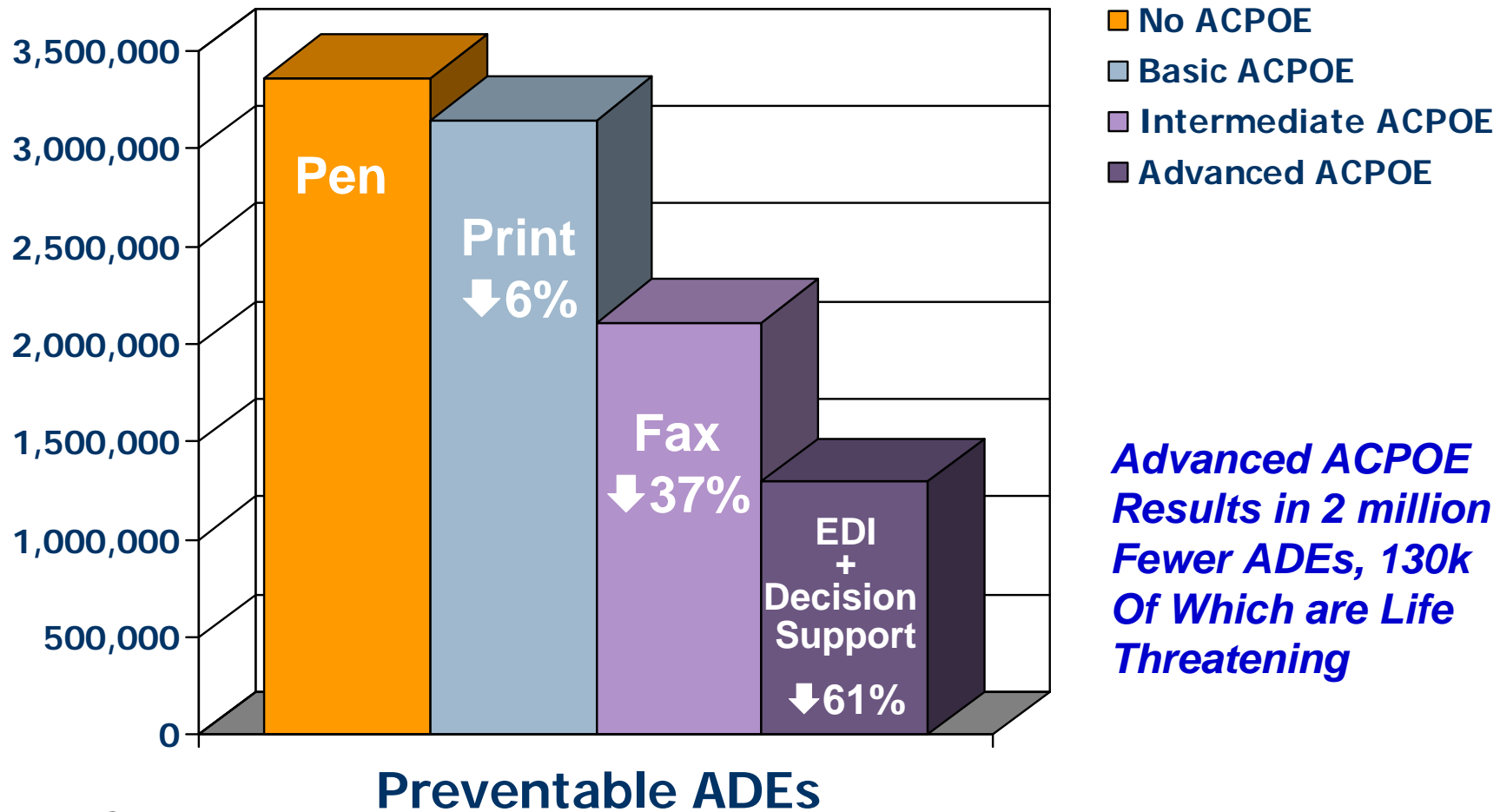
(1) Institute of Medicine. Preventing Medication Errors, 2006

(BCBS MA)
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Prescribing with Pharmacy Interoperability and Clinical Decision Support Lead to Greatest Safety Benefits



Source: CITL

Walgreens – IMS Study

Prescription Counts For 100 Prescribers: Before & After E-Prescribing

	<u>3 Months Before e-Rx</u>	<u>3 Months After e-Rx</u>	<u>Difference</u>
New Prescriptions	272,103	302,616	11.21%

***With E-Prescribing
More Prescriptions Get to the Pharmacy***

Key Health IT Policy Issues

- President directive calling for EHRs
- Federal government push toward standards – CCHIT, MMA
- CMS recently issued proposed rules
 - E-prescribing standard moved from NCPDP 5.0 to NCPDP 8.1 to include formulary, eligibility, medication history as foundation standards (must be complied with under Medicare Part D)
 - CMS eliminates fax exemption effective January 1, 2009
 - Computer generated fax prescriptions no longer legal for Medicare
 - Tamper proof pads for Medicaid prescriptions required April 1, 2008
- AHIC recommended to Secretary of HHS that he seek statutory authority to offer the use of financial incentives or penalties under Medicare to encourage e-prescribing
- Senator Kerry Bill – incentives for e-prescribing adoption recently introduced
 - Phased in bonus payments tied to e-prescribing until 2011
 - Pay reductions without e-prescribing adoption after 2001
- DEA prohibits controlled substances from being prescribed electronically
 - Senate Judiciary Committee held hearing on this in December 2007
 - Industry coalition is working every angle
 - New rule expected to be issued soon

E-Prescribing: The Case for Employers

- Significant pressure to better manage healthcare costs and reduce variability in quality and outcomes; health information technology can help
- Medication management is a key area of focus and opportunity
- \$220 billion is spent on drugs in the U.S. with more than \$50 billion on chronic medications
- Patient adherence with prescribed medication regimens is less than 50%
- 130 million Americans have a chronic condition representing at least 50% of all prescriptions
- Better medication management can lead to potential medical benefits and reduced costs of emergency room, inpatient hospital admissions, and physician practice visits
- Health care payers including health plans, large self-insured employers, the government, and others can play a very important role in encouraging e-prescribing to improve medication management

Example of Employer Led E-Prescribing Initiative

- Southeast Michigan E-Prescribing Initiative (SEMI)
 - GM was the initial driver -- GM spent \$4.6 billion on health care in 2007 providing coverage for 1 million employees, retirees, and their dependents; every two seconds, GM pays for a prescription
 - GM, Chrysler and Ford are championing the initiative to improve health and safety of employees, retirees and their dependents
 - Medco and CVS Caremark are involved, as well as several health plans
 - SureScripts and RxHub provide e-prescribing infrastructure
 - Over \$1 million invested by coalition members
 - Over 3,000 physicians are e-prescribing; SEMI provides \$500 upfront and \$500 after 6 months of use
 - Nearly 7.5 million e-prescriptions since February 2005
- Impact -- 4.2 prescriptions analyzed
 - Severe or moderate drug-drug interaction was sent to prescribers for 1.3 million prescriptions (31%) resulting in more than 508,000 prescriptions being changed or cancelled
 - Nearly 120,000 medication-allergy alerts were presented with 49,000 (40%) being acted upon
 - When a formulary alert was presented, 38% of the time the physician changed the prescription to comply with formulary
 - Physicians are extremely satisfied with e-prescribing according to survey of 500 conducted in January 2008
 - For 9 out of 10, e-prescribing met or exceeded expectations
 - 75% strongly agree that e-prescribing improves patient safety

What Can Employers Do to Encourage E- ~~Prescribing?~~

- **Make a series of decisions about what the organization values most; how process innovations can best generate value; which type of innovation makes the most sense based on market dynamics and fit with their own organization; and what best practices could guide the implementation of innovations of interest**
- **Consider a broader role in supporting electronic prescribing: need incentives, education, implementation assistance**
 - **The cost, quality and efficiency benefits of e-prescribing are very dependent on how well the technology is implemented and successful implementation is difficult**
 - **Employer initiatives to encourage e-prescribing should include implementation assistance for physicians that takes into account the different needs of different types of practices – provider incentives, employee incentives**
 - **Employers can play a key role in smoothing the way in a given community by engaging health plans, pharmacies, PBMs and others to bring economies of scale to bear on the process**
 - **Employers should collaborate with other employers, health plans to advance the shared goal of improving medication management**
 - **Create or leverage an existing forum for employers and other payers to discuss and share best practices and lessons learned on solutions to improve medication management and encourage e-prescribing**

E-prescribing is a good first step to healthcare transformation and improving outcomes....

