

Opportunities to Improve the Safety and Use of EHRs

Presentation at the ONC Annual Meeting

Ben Moscovitch, Project Director, Health Information Technology, The Pew Charitable Trusts



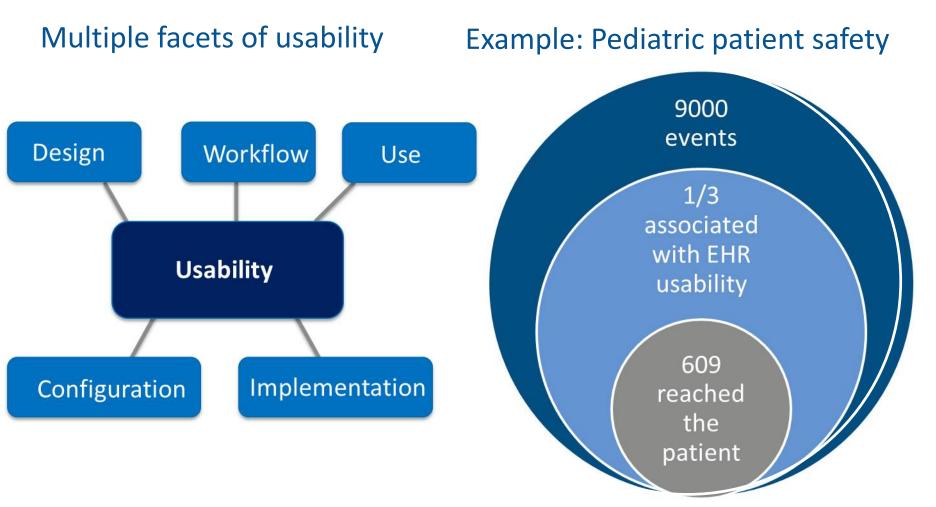
The Puzzle— and the Promise— of Electronic Health Records

> Computerized patient information can revolutionize healthcare, but the revolution won't come without first solving some big concerns.





Link Between Usability and Safety



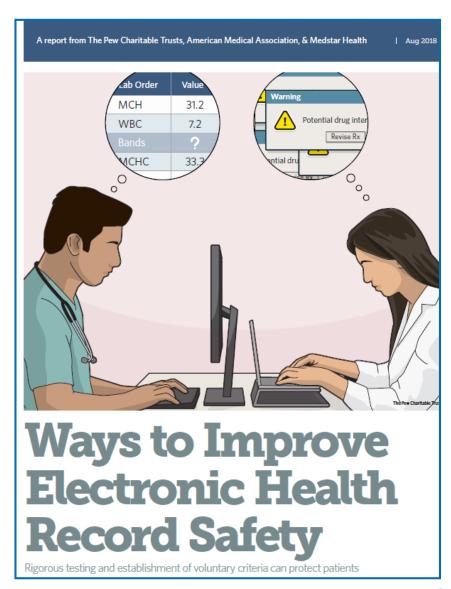


https://www.healthaffairs.org/doi/abs/10.1377/hlthaff.2018.0699



Use Cases and Best Practices

- Pew, American Medical
 Association & MedStar convenings
- Developed 14 rigorous, safetybased test cases
 - » Principles for rigor
 - » 7 high-priority areas
 - » Basic & advanced cases
- Developed safety-focused best practices for providers & vendors



Practices for EHR developers

Life-cycle stage	Example Practices
Culture of safety	 Enable methods for employees, clinicians to report events Have dedicated personnel with patient safety credentials
Design and development	 Conduct rigorous testing of high-risk functions Incorporate user-centered design principles
Acquisition	 Provide clear documentation on EHR features, including safety
Customization and configuration	 Describe configuration-related risks Document and share known high-risk customizations
Implementation and upgrades	Assist with safety testingCommit to providing safety-based maintenance
Training	 Conduct training within the actual setting of use Offer refresher training after all major system changes



Practices for health care providers

Life-cycle stage	Example Practices
Culture of safety	 Create structure to collect and address safety reports Enable auto-surveillance
Design and development	 Provide developers opportunity to observe workflows Allow clinicians to inform safety testing
Acquisition	Assess and detail clinician needs for developers
Customization and configuration	 Document clear justification for customizations Develop risk mitigation places
Implementation and upgrades	 Conduct rigorous safety testing on implemented products Implement upgrades in a timely manner
Training	 Prioritize training Tailor training to user needs (e.g. simulations)



Going beyond certification: Private sector and policy opportunities

- Use of best practices and test case scenarios
 - » Can be adopted and implemented today
 - » Joint Commission can incorporate into its accreditation program
- Incorporation of safety into voluntary criteria for EHRs used in pediatric care

JAMA Pediatrics



Improving Pediatric Electronic Health Record Usability and Safety Through Certification Seize the Day

- EHR reporting program
 - » ONC's CHPL
 - » SAFER Guides
 - » Leapfrog test









For additional questions or information:

Ben Moscovitch Project Director, Health Information Technology The Pew Charitable Trusts bmoscovitch@pewtrusts.org 202.540.6333



@benmoscovitch



