

IHA's Anticoagulant
ADE Webinar Series:
Medication Reconciliation
and
Health Literacy

October 29, 2013



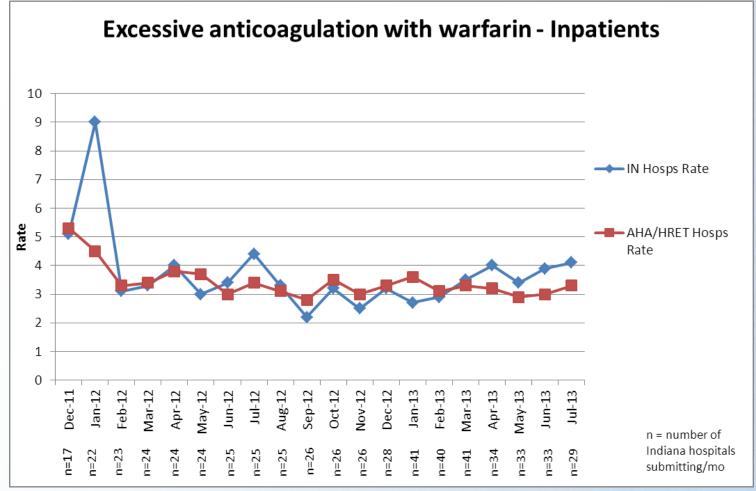




Webinar Agenda

- Overview & Introductions Betsy Lee
- Pharmacist's Role in Anticoagulation Drs. John Hertig & Katelyn Brown
 - Identify key factors to consider when performing medication reconciliation for a patient on anticoagulation (i.e. drug interactions, social history, etc.)
 - Identify common barriers to medication reconciliation
 - Define health literacy and identify strategies to improve health literacy for those patients on anticoagulation therapy
- Wrap-up Betsy Lee





The analyses upon which this publication is based were performed under Contract Number No. HHSM-500-2012-00017C, entitled, "Hospital Engagement Contractor for Partnership for Patients Initiative." This publication's contents are solely the responsibility of the authors and do not necessarily represent the official views of The Centers for Medicare & Medicaid Services.



Evaluation

- Webinar funded by CMS through the Partnership for Patients
- CMS reviews results and wants 80% of participants to evaluate educational sessions
- Please complete the simple three question evaluation by Nov. 8, 2013:

https://www.surveymonkey.com/s/ADEWebinarSession3













CE Information for the IHA Anticoagulation Bootcamp CE offerings

Anticoagulation Boot Camp - Medication Reconciliation with Anticoagulation

Audience - This activity is designed for pharmacists.

Learning Objectives:

- 1. Identify key factors to consider when performing medication reconciliation for a patient on anticoagulation (ie drug interactions, social history, etc)
- 2. Identify common barriers to medication reconciliation
- 3. Define healthy literacy and identify strategies to improve health literacy for those patients on anticoagulation therapy



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Release Date: 10/29/2013 Expiration Date: 10/29/2013

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Zach Weber, PharmD, BCPS, BCACP, CDE - Purdue University - has nothing to disclose





Post Webinar Evaluation

https://purdue.qualtrics.com/SE/?SID=SV_9EK5YP9S2gdKEU1

Any questions should be directed to Dawn Sinclair at (765) 494-5457 or sinclaid@purdue.edu





Anticoagulation ADE Boot camp: Medication Reconciliation and Health Literacy

John B. Hertig, PharmD, MS
Associate Director
Assistant Clinical Professor
Purdue University College of Pharmacy
Center for Medication Safety Advancement





Learning Objectives

- Identify key factors to consider when performing medication reconciliation for a patient on anticoagulation (i.e. drug interactions, social history, etc.)
- Identify common barriers to medication reconciliation
- Define health literacy and identify strategies to improve health literacy for those patients on anticoagulation therapy

Medication History Review

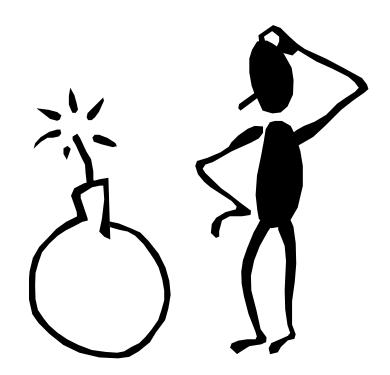
 A structured, critical examination of a patient's medicines with the objective of reaching an agreement with the patient about treatment, optimizing the impact of medicines, minimizing the number of medication-related problems and reducing waste



Medication Reconciliation

- A process of identifying the most accurate list of all medications a patient is taking including name, dosage, frequency, and route—and using this list to provide correct medications for patients anywhere within the health care system
 - Cognitive or clinical use of the medication history or review

Why All this Talk about Medication Reconciliation?



Medication Reconciliation as a Patient Safety Issue

- Studies quantify discrepancies during key transition points such as hospital admission, intra-hospital transfer, and discharge
- Differences between the medications patients' took prior to admission and their admission orders ranged from 30 percent to 70 percent in literature reviews

Impact of Medication Discrepancies

- More than 50% of admitted patients have at least one discrepancy
 - Medication history vs. pre-admission regimen
 - 27%-59% of these have potential to harm
- Discrepancies are the most common drugrelated problems at time of discharge
- Root cause of at least half of all preventable adverse drug events within 30 days after discharge

National Patient Safety Goals

- NPSG.03.05.01
 - Take extra care with patients who take medicines to thin their blood

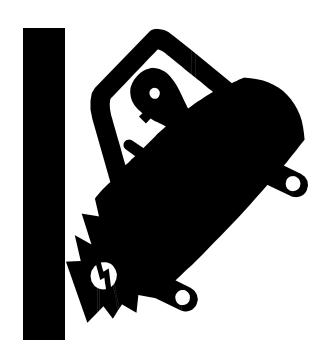


- NPSG.03.06.01
 - Record and pass along correct information about a patient's medicines
 - Find out what medicines the patient is taking
 - Compare those medicines to new medicines given to the patient
 - Make sure the patient knows which medicines to take when they are at home
 - Tell the patient it is important to bring their up-to-date list of medicines every time they visit a doctor

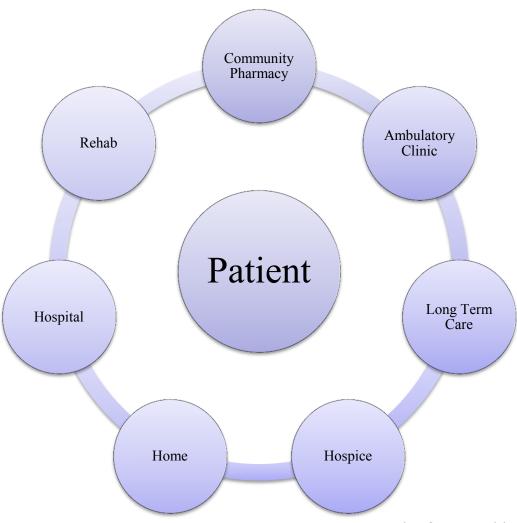
Foundational Principles

- Care coordination is important for everyone
- Certain populations are higher risk
- Targeted care coordination may be needed:
 - Clinician-level
 - Group/team
 - Practice
 - Organizational-level
- Patient/family involvement is essential

Barriers to Effective Medication Reconciliation



Opportunities to Fail



Improving Care Transitions: Optimizing Medication Reconciliation. ASHP, APhA. 2012.

Assessment Question

 Medication reconciliation is the responsibility of only one profession or discipline.

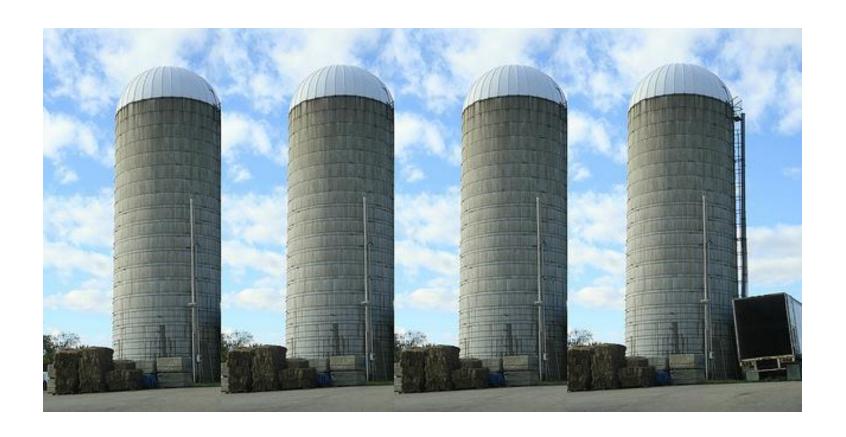
- True
- False

Barriers and Disconnects



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System



Clinicians

- Misunderstanding about the nature of the next care location
- Communication breakdowns
- External factors not considered
 - Access
 - Cost
 - Preferences
- Very little accountability

Patient

- Passive role in care
- May be the only common linkage between providers
 - Poor historians
 - Limited "assumed" responsibility
- Not given tools and resources to navigate complexity

Medication Reconciliation: Challenges

- Information from multiple, often inaccurate, sources:
 - Patient/caregiver
 - Primary care physician
 - Medical records
 - Discharge summaries
 - Community pharmacies
- Many disciplines involved
 - Accountability
 - Expectations?
 - Misalignment



ISMP Medication Safety Alert! Acute Care Edition. July 13, 2006.

Principles of Effective Medication Handoffs



Best Practices in Medication Reconciliation

- Many disciplines should be involved (avoid silos!)
 - Physicians
 - Nurses
 - Pharmacists
- Process must be clearly defined
- Responsibilities for each component of the process assigned
 - Expectations
 - Accountability

Best Practices in Medication Reconciliation

- No single universal process will meet needs of all patients entering a hospital
 - Limited number of different processes will likely need to be developed based on patient population and point of entry into hospital
- Successful implementation will require significant training, education, and support from clinical leaders
 - Willingness to engage in continuous improvement and monitoring for compliance are likely success factors

Additional Care Transitions Strategies

Intervention	Impact
Transition Communication	Discrepancy recognition Decrease ADEs
Patient Education	Side effect awareness Greater medication understanding Decrease ADEs
Follow-up Telephone Call	Discrepancy recognition Increase patient adherence Decrease ADEs
Post-discharge Clinics/ Improved Monitoring	Optimize therapy Decrease ADEs

Summary



Summary Points

- Failure to reconcile medications during transitions of care accounts for many preventable adverse events
- To design a robust medication reconciliation process, one must define steps involved and decide who should be responsible for each step
- A reliable medication reconciliation system requires a multi-disciplinary approach
 - Physicians
 - Nurses
 - Pharmacists





Anticoagulation ADE Boot Camp: Health Literacy

Katelyn Brown, PharmD
Post-Doctoral Fellow in Medication Safety
Purdue University CMSA/ Eli Lilly and Company/ FDA





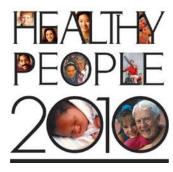
Learning Objectives

- Define health literacy
- Identify strategies to improve health literacy

Definition: Health Literacy

- "The degree to which individuals have the capacity to <u>obtain, communicate, process,</u> <u>understand, and act upon health information</u> and services needed to <u>make appropriate</u> <u>health decisions</u>"
 - Affordable Care Act of 2010





Literacy vs. Health Literacy

More than simply the ability to read

Health literacy requires a complex group of

skills

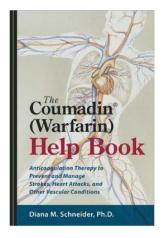
Reading

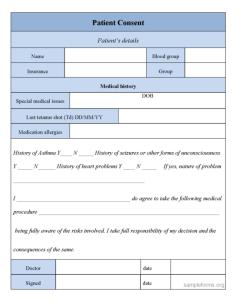
Listening

Analytical

Decision-making







Health Literacy Gap



Individual Skills and abilities

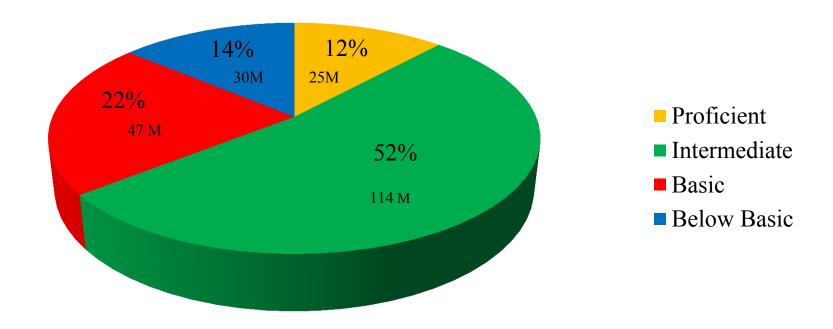
Complexity and demands of Health and Healthcare system

Health Literacy in the United States

- National Assessment of Adult Literacy (NAAL)
 - Four performance levels
 - **Below Basic:** perform the most simple and concrete literacy skills
 - **Basic:** perform simple and everyday literacy activities
 - Intermediate: perform moderately challenging literacy activities
 - <u>Proficient:</u> perform more complex and challenging literacy activities

2003 NAAL

US Adult's Health Literacy Levels



Approximately <u>88%</u> of Americans do NOT have proficient health literacy skills

What does this mean?

Nearly 9 out 10 adults lack the skills to

1. Manage their own health

2. Navigate the health care system



NAAL: Patient Characteristics

- Education level
- Race/ethnicity
- Age
- Primary language spoken
- Language of origin
- Financial status



Patient Examples

Look back at some of your patient interactions, have there been instances when you suspected a patient might have low health literacy?



Health Literacy: Anticoagulation Research

- 88% of reading material is at the 9th grade education level or higher
- Poor health literacy has the strongest relationship with an elevated INR
 - Produced a 3-4 fold increase in bleeding risk
- 81% of patients on warfarin had no knowledge about its benefits for the treatment of their medical condition
- Between 45% and 70% of older patients on warfarin therapy had insufficient knowledge about the potential risks associated with their treatment

Health Literacy: Anticoagulation Research

- Outpatient Warfarin Clinic
 - Describe your indication for warfarin
 - 43% answered inaccurately
 - Describe a stroke
 - 40% described a stroke inaccurately
 - Only 33% described the signs/symptoms of a stroke

Bottom Line

Health Literacy is a **stronger predictor** of health status than

- Age
- Income
- Employer status
- Education level
- Race/ethnicity



Why is Health Literacy Important?

- Lower utilization of preventative services
- Greater risk of preventable adverse events
- More emergency room visits and hospitalizations
- Higher risk of death
- Higher costs

Call to Improve Health Literacy

- AMA Foundation 2003
 - "Health Literacy: Help Your Patients Understand"
- Institute of Medicine 2004
 - "Health Literacy: A Prescription to End Confusion"
- The Joint Commission 2007
 - "Improving Health Literacy to Protect Patient Safety"
- Healthy People 2010 & 2020
 - Objectives

HCP Role in Health Literacy



Never assume a patient has adequate health literacy

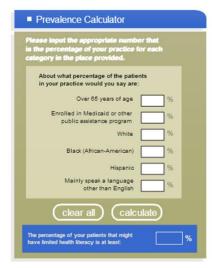
Effectively communicate to patients

Environment needs to be patient-centered

Design system processes that address health literacy issues

Never assume a patient has adequate health literacy

- Multiple factors affect health literacy
 - Education level
 - Social factors
 - Cultural factors
- Utilize tools
 - Prevalence calculator
 - Observations
 - Screening Questions



http://www.pfizerhealthliteracy.com/physiciansproviders/PrevalenceCalculator.aspx. Accessed September 24, 2013.

Effectively communicate to patients

- Use plain language and analogies
- Use open-ended questions
- Focus the take away message
- Check for understanding using "teach back" method
- Pictures and demonstrations are most helpful for low literacy
- Design educational material at the appropriate reading level

Environment needs to be patientcentered

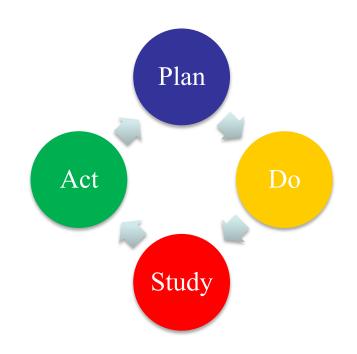
- Create a warm, welcoming environment
- Engage patients in the dialogue
- Welcome questions
- Address their concerns
- Listen more and speak less



 Encourage them to have someone come with them

Design system processes that address health literacy issues

- Form a team
- Perform a self-assessment
- Develop an action plan
- Measure outcomes
- Continuous improvement



Take Home Question

 What (if anything) will you change in your practice now that you are aware of the issues of health literacy?

Putting It all Together

- 9 out of 10 adults have low health literacy
- Health literacy is a strong predictor of health status
- Patients receiving warfarin have many risk factors for having low health literacy
- <u>NEED</u>: Never make assumptions, Effectively communicate, Environment needs to be patient centered and Design processes that address health literacy

Anticoagulation Boot Camp Toolkit



Improving Safety through Anticoagulation Therapy Management





Thank you

Thank you for your participation in this program.





Center for Medication Safety Advancement

Anticoagulation ADE Boot camp: Medication Reconciliation and Health Literacy

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