



CDC Update

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Laboratory Medicine Best Practices (LMBP) project

- **Develop methods for evaluating practice effectiveness via evidence reviews**
 - support “best practice” recommendations
- **Help the field adopt a systematic, transparent, and consistent approach to making evidence-based practice recommendations .**
 - Phase 1 - develop methods to address this need.
 - Phase 2 - pilot test the methods
 - Phase 3 - develop access to unpublished information
- **Progress to date:**
 - Developed methods and pilot testing: 1) patient specimen identification and 2) critical values communication practices
- **The goal is to improve health care quality by providing laboratory medicine practices based on evidence and by motivating participation in gathering evidence to support a practice .**



Laboratory Medicine Best Practices Overview

Review

- Analytic Framework & Review question(s)
- Search strategy (published)
- Investigation: Focused search unpublished - LMBP Network
- Screen/ exclusion criteria
- Review/ abstract
- Summarize evidence

Evaluation

- Evidence/ study rating criteria:
- Quality
 - Effective size
 - Consistency
- Overall Strength of Evidence ratings:
- High
 - Moderate
 - Suggestive ➤
 - Insufficient

"Best Practice" Recommendation

- Strongly Recommend
- Recommend
- Recommend based on expert opinion
- No recommendation (insufficient evidence)
- Recommend against

1 – Effect Size Rating

2 – Study Quality Rating

Study Ratings:	Effect Size(1)
Study 1 (Author Year)	
Study 2 (Author Year)	
.	
.	
Study n (Author Year)	

- Substantial
- Moderate
- None/Minimal
- Adverse

Practice A	Study Characteristics (3 points)	Practice Characteristics (2 points)	Outcome Measures (2 points)	Results/ Other (3 points)	Overall Study Quality Rating (2)
Study 1					
Study 2					
Study 3					
...					
Study N					

- Good: 8-10 points
- Fair: 5-7 points
- Poor: ≤ 4 points

Individual Study Ratings

Study Ratings:	Effect Size(1)	Quality (2)
Study 1 (Author Year)	1	2
Study 2 (Author Year)		
.		
.		
Study n (Author Year)		

Overall Evidence Rating

Overall Evidence of Effectiveness

Effect Size Ratings (1)	Individual Studies #/Quality (2)	Consistency (3) (Yes/No)	Overall Strength Rating (4)	Recommendation (5)
Substantial	# Good: #Fair:	3	4	5
Moderate	# Good: #Fair:			
None/Minimal	# Good: #Fair:			
Adverse	# Good: #Fair:			

1 2

- Recommendation Categories
- Strongly recommend
 - Recommend
 - Recommended based on expert opinion
 - No recommendation for or against
 - Recommend against

- Additional Considerations
- Feasibility of Implementation
 - Economic Evaluation
 - Applicability to Specific Care Settings
 - (Non-Effect Size) Harms and Benefits



Evidence-Based Laboratory Medicine: Quality/Performance Measure Evaluation

- identify and develop evidence-based laboratory medicine performance measures to evaluate performance associated with the pre- and post-analytic stages of testing.
- three steps – 1) ID evidence gaps for QI; 2) develop measures to target gaps; and 3) test and refine the measures
- three funded projects:
 - Kaiser Permanente Foundation Hospitals
 - Target is Kaiser Permanente health plans' chronic kidney disease patients and groups identified at high risk for developing the disease (e.g., diabetes patients)
 - Texas Department of State Health Services
 - Target is Texas Newborn Screening and six potential measures for timeliness of treatment
 - University of Colorado Denver
 - Target is six pre- and post-analytical steps of the testing process that address clinically important quality gaps in laboratory medicine at multiple collaborating laboratories in order to develop and validate the six quality/indicator/performance measures



Post-Institute Activities

- University of Colorado
 - Follow-up on 2007 Institute: Managing for Better Health
- 2007 National Status Report on Laboratory Medicine – Now available online
 - 2008 Add
 - chapter on patient-centered care
 - chapter on testing technology
 - chapter on policy implications
- National Quality Forum (NQF)
 - **Steering Committee on patient safety and communication practices**
 - **July 30-31 Reviewed 10 practices – ID gaps**
 - **NQF consensus for some practices**



Post-Institute Activities

- Institute of Laboratory Medicine (ILM)
 - Create an inventory of ongoing projects to optimize laboratory services
 - Provide support for two Workgroups
 - Roadmap Workgroup
 - To provide a framework to optimize laboratory services in health care
 - Integration Workgroup
 - To identify and champion models of patient care that facilitate collaboration between laboratory professionals and clinicians in the selection and interpretation of laboratory tests.
 - To promote the development and dissemination of education and training for laboratory professionals, clinicians, and patients
 - Identify private sector partner that might house ILM



Roadmap Working Group

- **Co-Lead: Lee Hilborne, MD, MPH**
UCLA/RAND Health/Quest
Diagnostics
- **Co-Lead: Elizabeth Wagar, MD**
UCLA Medical Center
- **John Ball, MD, JD**
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- **Raj Behal, MD, MPH**
Rush University Medical Center
- **Nancy Elder, MD, MSPH**
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- **Cyril (Kim) Hetsko, MD, FACP**
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- **Janet Marchibroda, MBA**
eHealth Initiative and Foundation
- **Mary Nix, MS, MT(ASCP), SBB**
Agency for Healthcare Research and
Quality
- **Karen Linscott, MA, PT**
The Leapfrog Group
- **Alan Simon, MD**
CDC - National Center for Health
Statistics
- **Ana Stankovic, MD, PhD, MSPH**
Becton Dickinson

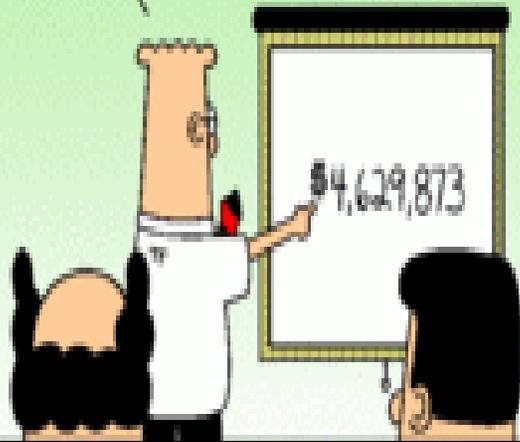


Integration Working Group

- **Co-Lead: John Hickner, MD, MSc**
University of Chicago School of Medicine
- **Co-Lead: Michael Laposata, MD, PhD**
Vanderbilt University Hospital
- **Scott Endsley MD, MSc**
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- **Mark Johnston**
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- **Jim L. Meisel, M.D., FACP**
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- **Susan Nedza MD, MBA**
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- **Elissa Passiment, EdM**
American Society for Clinical Laboratory Science
- **James Pearson, PhD,**
State of Virginia Department of Laboratories
- **Stephen Sproul, M.D.**
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HOW MANY STUDIES SHOWED THAT?

EIGHTY-SEVEN.

