





CLIAC Meeting February 9, 2010 Roberta B. Carey, Ph.D.

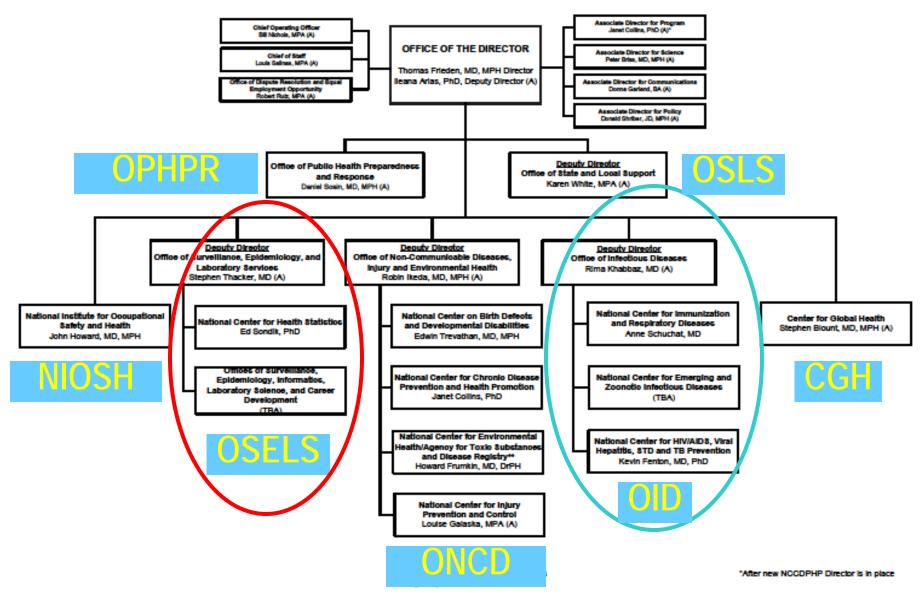
Organizational Improvement

Based on Dr. Frieden's five priorities:

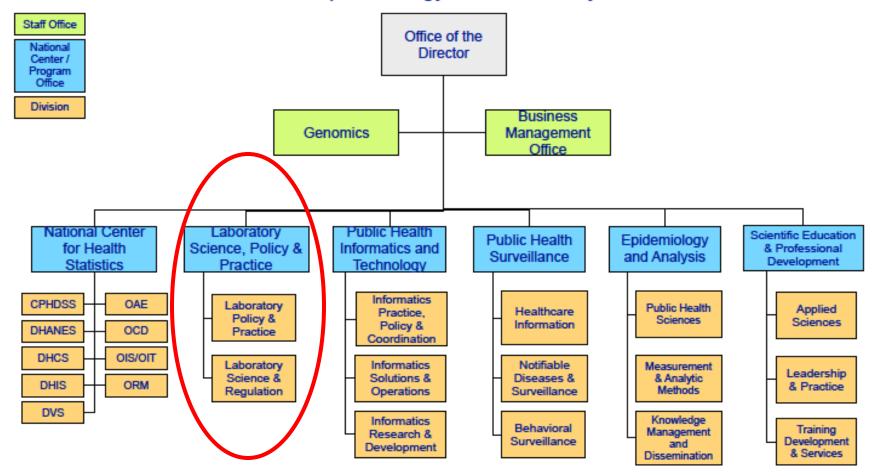
- 1. Improving support to states and localities
- Strengthening surveillance and epidemiology
- 3. Strengthening CDC's global health work
- 4. Improving policy effectiveness
- 5. Positioning CDC to address health reform

DEPARTMENT OF HEALTH AND HUMAN SERVICES CENTERS FOR DISEASE CONTROL AND PREVENTION (CDC)

PROPOSED



Office of Surveillance, Epidemiology and Laboratory Services









CLIAC Work Groups and Other Work Groups







CLIAC Proficiency Testing Workgroup Workgroup Charge

 Provide input to CLIAC for consideration in making recommendations to HHS regarding revisions to the CLIA requirements for proficiency testing (PT) specified in subparts H (lab) and I (PT programs) of the regulations

Includes all laboratory specialties except cytology

CLIAC Proficiency Testing Workgroup

Meeting planned for Mar 10-11, 2010

 Laboratory experts, accreditation/state licensure representatives, PT program officials will contribute

Teleconference held Jan 20, 2010

- Provide background on CLIA law, regulations
- Explain meeting goals
- Solicit input from their constituents

Topics for PT Workgroup to Address at March Meeting

Updating the list of CLIA-regulated analytes and prioritization

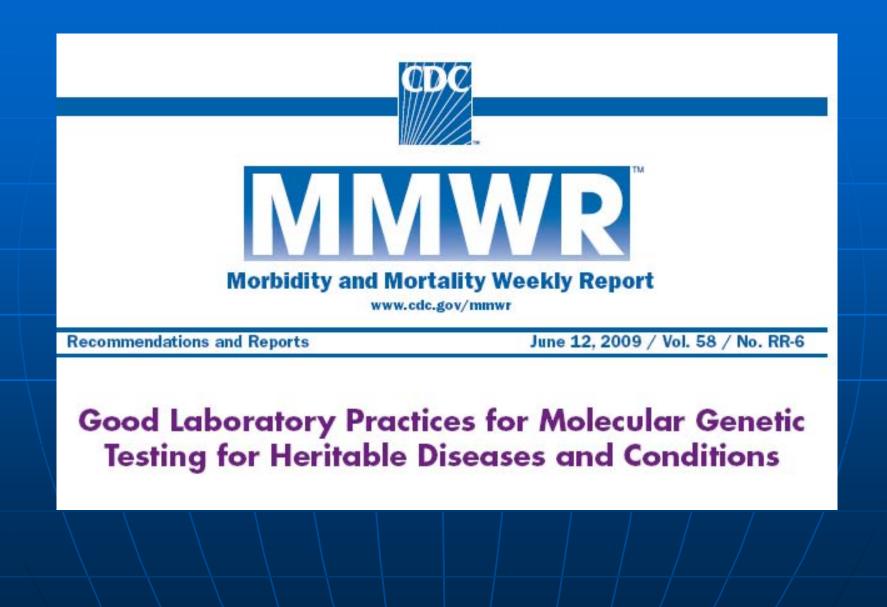
Determining criteria for acceptable performance and PT sample grading for CLIAregulated analytes (current and proposed)

Changes to PT for microbiology and subspecialties that do not have regulated analytes

Clarification of the statutory requirements that address PT referral

Cytology Cooperative Agreements

- Two awards funded in 2010-2011
- College of American Pathologists
 - Survey all cytology labs
 - Review current practices (specimen types/methods, QC, PT, problem solving
 - Analyze response, post on CAP website, convene consensus conference in 2011
- Michigan Public Health Institute
 - Survey pap smear providers
 - Review test request and report formats, lab role in clinical management
 - Partner with MI Cancer Consortium



Molecular Genetic Testing MMWR Post-Publication Activities

- Published commentaries and articles
- Created fact sheets, "one-pagers" for laboratorians and clinicians
- Write new CLSI guidance (MM20) on quality management for MGT (Dr. Chen)
- Presented at professional conferences (AMP, ACMG, SIMD, AACC)
- Developing training courses and workshops

Laboratory Medicine Best Practices

Goal

 Make evidence-based practice recommendations for quality improvement in laboratory medicine

Status

 Developed new methods for evaluating quality improvement evidence of effectiveness (published or unpublished)

Laboratory Medicine Best Practices

- 3 pilot test topics & 7 practices
 - Improving specimen identification



- Barcoding
- POCT barcoding
- Improving critical values reporting
 - Automated electronic notification
 - Call center
- Reducing blood culture contamination
 - Venipuncture vs. Catheter



- Phlebotomy team
- Commercial prep kit

4/7 practices had sufficient evidence to recommend as a best practice



Laboratory Medicine Best Practices

Products – in preparation

- Manuscript methods of the evidence-based laboratory medicine project
- Technical guide transparent procedures for replication of the study methods
- Individual manuscripts for the 3 topic-specific evidence reviews
- Web-based tutorial to educate laboratory scientists to include key elements in study design that can provide evidence for review
- Multiple scientific presentations are planned

Evidence-Based Lab Medicine Quality/Performance Measures

Laboratory tests for chronic kidney disease

- Kaiser Permanente Center for Health Research
- Anemia, proteinuria, est. glomerular filtration rate, parathyroid hormone

Newborn screening timeliness of diagnosis/ treatment

- Texas Dept of State Health Services
- Endocrine-, metabolic- and hemoglobin-related conditions

Pre and postanalytic laboratory medicine indicators

- Univ. of Colorado (Denver)
- Specimen ID errors, TDM test ordering, BC contamination, inpatient POC glucose accuracy, K+ critical value reporting, TAT for cancer diagnostic test to treatment

Evidence-Based Lab Medicine Quality/Performance Measures

Progress

- Standardized, evidence-based quality measures developed for diverse lab settings
 Prepaid health plans - outpatient chronic disease
 - 4 measures
 - Public health labs newborn screening
 - 16 pre- and 18 post-analytic measures
 - University hospitals anatomic pathology
 - 6 quality indicators

Planned

- Pilot testing of the identified measures
- Data collection to verify QI outcome
- Methods and findings to be published in peer-reviewed journals and disseminated at professional conferences

Genetic Testing in Clinical Practice: A Team Approach Interactive Multimedia Learning

http://iml.dartmouth.edu/education/cme/Genetics/index.html

Focus: Learning about the use of genetic tests in clinical practice through simulation







Prenatal Genetic icreening, Testing, and Counseling	Genetics and Hereditary Cancer	Direct to Consumer Genetic Testing	Genetic Evaluation in a Child	Evaluation of a (Relatively) Common Genetic Condition
Joan Singer (28 ys, 2 months pregnant)	John Martin (46 yo, brother with advanced colon cancer)	Jan Simpson (32 yo, wellnes)/ preventive care visit)	Thomas Harrison (7 yo, developmental delay, learning disability)	Belinda Santos (43 yo, recent diagnosis of hemochromatosis)
AVAILABLE	COMPLETED	AVALABLE	AVAILABLE	AVAILABLE
Joan and Harrison Singer toosple counseling)	John Martin (follow-up visit)	Jan Simpson (follow-up visit)	Please select a case	
UNAVAILABLE	AVAILABLE	UNAVAILABLE		INDER FRANKLIKE BERKE
Joan and Harrison Singer Icospie counseling				?
UNAVAILABLE				



Users: Clinicians, Medical Schools

Genetic Testing in Clinical Practice: A Team Approach Interactive Multimedia Learning



"The Team"



Patient encounter

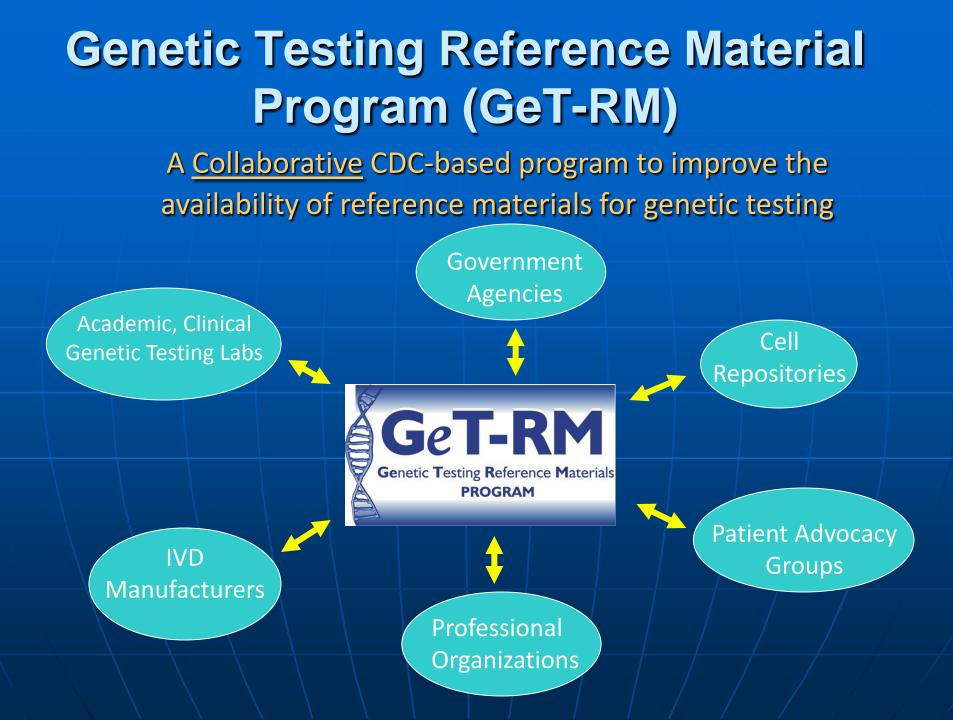


Laboratory Tour - Molecular

- Cytogenetic
- Biochemical



Counseling session



GeT-RM Projects

Completed Projects

- **Fragile X**
- Huntington Disease
- Cystic Fibrosis
- Ashkenazi Jewish Panel
 - 9 disorders including Tay-Sachs and Canavan disease
- BRCA1/2MTHFR
- Multiple endocrine neoplasia Type 2A
- Alpha1-antitrypsin deficiency

Ongoing Projects
Pharmacogenetics (20 markers!)
Newborn Screening
Cytogenetics
Molecular oncology
Biochemical Genetics

Over 200 DNA RM characterized by GeT-RM

Rapid Influenza Testing Survey with The Joint Commission

Goal

 To assess pre- and post-analytic quality in rapid influenza test usage in Emergency Dept. (ED), comm. health centers (CHC), physician offices (PO) Types of rapid influenza diagnostic test (RIDT) in use Training and competency of personnel Adherence to Good Laboratory Practice Impact on Rx - antivirals and antibiotics Perceived utility of test

Rapid Influenza Testing Survey with The Joint Commission First survey (2008) findings: PO and CHC performed RIDT on site Confirmatory testing not performed <72% reported +RIDT to state/local HD</p> Positive RIDT results contributed to antiviral Rx antibiotic Rx Mos CHC and PO implemented quality assurance programs Only 18 – 40% participated in proficiency testing

Rapid Influenza Testing Survey with The Joint Commission

Second survey to be done 2010
Revised based on H1N1 outbreak
Sensitivity 40-70% for Influenza A H1N1
Changes in testing practices since H1N1
Impact of H1N1 on diagnosis and treatment of patients with Influenza Like Illness





Laboratory Medicine Roadmap Workgroup

Goal

 Create an action plan to help the laboratory community move from the present state to optimized patient care, as defined by the 6 IOM domains

Status

 Drafted paper to describe the actions to increase the value of laboratory medicine through research and innovation, information systems and IT, incentives, outreach, prioritization and implementation of activities

Laboratory Medicine Integration Workgroup

Goal

 Develop systems to improve the selection and interpretation of laboratory tests

Status

- Prepared 6 algorithms for test selection related to coagulation
- Define challenges in test ordering and result interpretation
 - Focus group 3/17/10 for clinicians
 - Survey of medical school curricula
 - Develop clinical vignettes for testing residents
 - Develop protocol for inspecting CP residency programs to determine consultation education provided



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