SACHDNC Laboratory Standards and Procedures Subcommittee

Fred Lorey, PhD California Department of Public Health September 14, 2012 CDC Recommendations for Good Laboratory Practices in Biochemical Genetic Testing and NBS for Inherited Metabolic Disorders

- Presenter: Bin Chen, PhD (CDC)
- Intent of recommendations
 - Provide quality management guidance for genetic
 testing performed for screening, diagnosis, monitoring,
 and treatment of heritable metabolic disorders
 - Consider BGT and NBS separately when practices differ
 Clarify CLIA requirements and provide additional good laboratory practice recommendations
 - Complement 2009 CDC guideline for molecular genetic testing

CDC Recommendations for Good Laboratory Practices in Biochemical Genetic Testing and NBS for Inherited Metabolic Disorders

- Intended audiences
 - Laboratory professionals
 - Laboratory surveyors and inspectors
 - Users of laboratory services
 - Standard-setting organizations
 - Professional societies
 - IVD manufacturers
- Expected outcomes
 - Improve quality of laboratory genetic services
 - Improve healthcare outcomes from genetic testing

Lab Subcommittee Discussion

- Report is not ready for the full Committee to vote on for support.
- Would like more information on how this could impact State programs.

Discussion on CLSI Document – Newborn Blood Spot Screening for SCID by Measurement of TREC

- Addresses the detection of SCID by population-based newborn screening using dried blood spot specimens to measure TREC.
- Need volunteers to review draft during the CLSI document development process.

Discussion on NBS Quality Indicators

- Supports Priority B: Provide guidance for State NBS programs in making decisions about lab implementation, integration, follow-up, and quality assurance
- Important to confirm the quality of the data submitted
- Provide feedback to States based on data received
- States could use the new data repository in NewSteps for case management
- Important to discuss with States What do States get back? How will this data be meaningful to States? What would this be valuable to States.
- Don't duplicate efforts; don't reinvent the wheel
 Don't want to input same data in various places

NBS Case Definitions

- Supports Priority B: Provide guidance for State NBS programs in making decisions about lab implementation, integration, follow-up, and quality assurance
- Next steps: Several states have volunteered to beta test the case definitions modules for the different disorder categories
- How to get outcome data back to States so they can improve their programs – ACMG looking at this closely

Priority Projects

- Priority A: Review new enabling/innovative technologies
 - Begin with succinylacetone as part of AC/AA analysis
 - Possibly include in MMWR depends on the information collected
 - Workgroup
 - Lead: Carla Cuthbert (CDC)
 - Dieter Matern
 - Stan Berberich

 Proposed Finish Date: Presentation at May 2013 meeting

Priority Projects cont'd

- Priority B Provide guidance for state NBS programs in making decisions about lab implementation, integration, follow-up, and QA
 - Project Comparative performance metrics
 - In progress
 - Project Slide deck for State Labs when a new condition is added to the RUSP
 - What types of info is needed so State Labs can discuss with CMOs, Legislature, hospitals, etc
 - In progress begin with SCID
 - Amy Brower, Jane Getchell, Mei Baker

Priority Projects cont'd

- Priority C: Establish process for regular review and revision of the RUSP and recommend specific changes to technology when indicated.
 - Project Work with Condition Review Group to develop lab requirements for their reviews. *This project is a joint project with all three subcommittees.

Membership

- Call for <u>self nominations</u> for the Lab Subcommittee.
- Categories of expertise
 - State Lab (with expertise in molecular)
 - Commercial Labs
 - Clinicians
 - Pathologists

Update – Health Information Technology

- New version of LOINC newborn screening panel is available (<u>www.nlm.nih.gov/newbornscreeningcodes</u>)
- NLM would like feedback
 - Are there new codes needed for second screen tests?
 - New codes needed for confirmatory or diagnostic testing?
 - How are NBS labs reporting mutations found and mutations test for NBS conditions where they do genetic testing.

Questions?