

2012 Newborn Screening Molecular Training Workshop Objectives

Course Objectives:

- Identify scenarios when a molecular test is appropriate in the newborn screening laboratory.
- Describe the benefits of using a molecular test for different newborn screening disorders.
- Name at least two applications of molecular testing in newborn screening.
- Describe the common protocols for DNA extraction and DNA quantification from dried blood spots.
- Describe a PCR-based assay to detect a single or a small number of mutations.
- Conduct DNA extraction, PCR amplification, restriction digestion, and gel electrophoresis.
- Discuss quality control procedures and requirements specific for molecular testing.