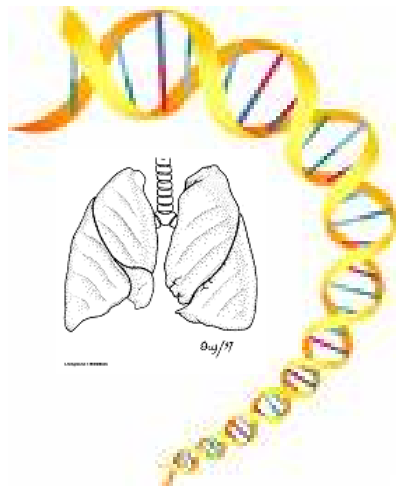


Newborn Screening for Cystic Fibrosis

Carrie Langbo, MS, CGC
October 25, 2007

Cystic Fibrosis



- Genetics
 - Autosomal Recessive
 - CFTR Gene
- Symptoms
 - Pancreatic and Pulmonary

Without NBS

- Delayed Diagnosis

Rationale for Newborn Screening

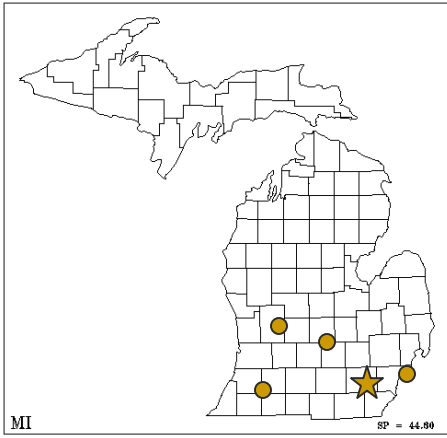
■ *With NBS*

- Earlier diagnosis of CF
 - Aggressive Prophylactic Treatment
 - Improved growth and nutritional status
 - Possible increase in survival



.....*Consensus: Start NBS for CF*

Cystic Fibrosis Advisory Council



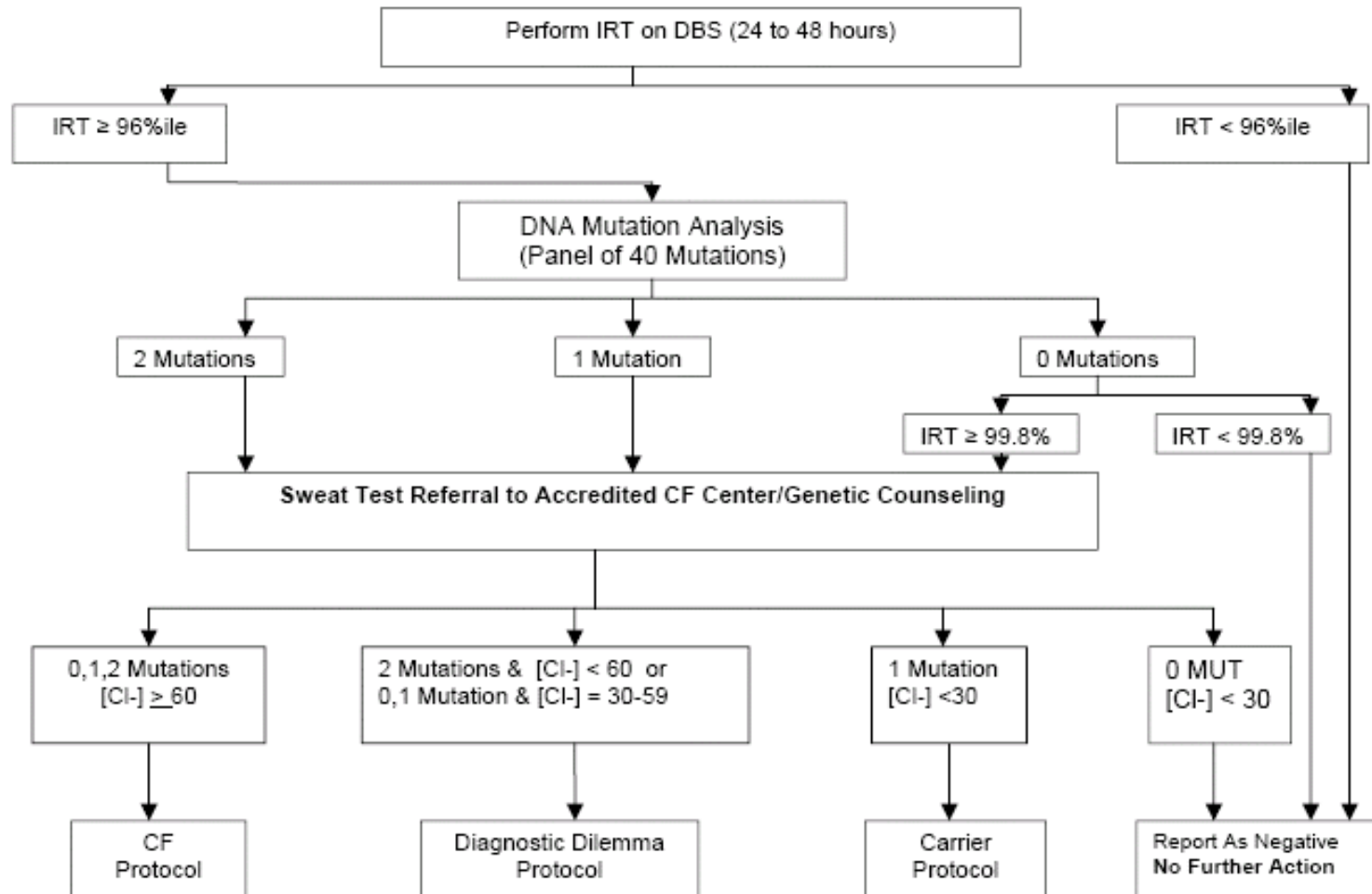
- Participants....
 - MDCH, NBS Laboratory, CF Center Directors, Genetic Counselors



- Charged with.....
 - Screening Process
 - Follow-up



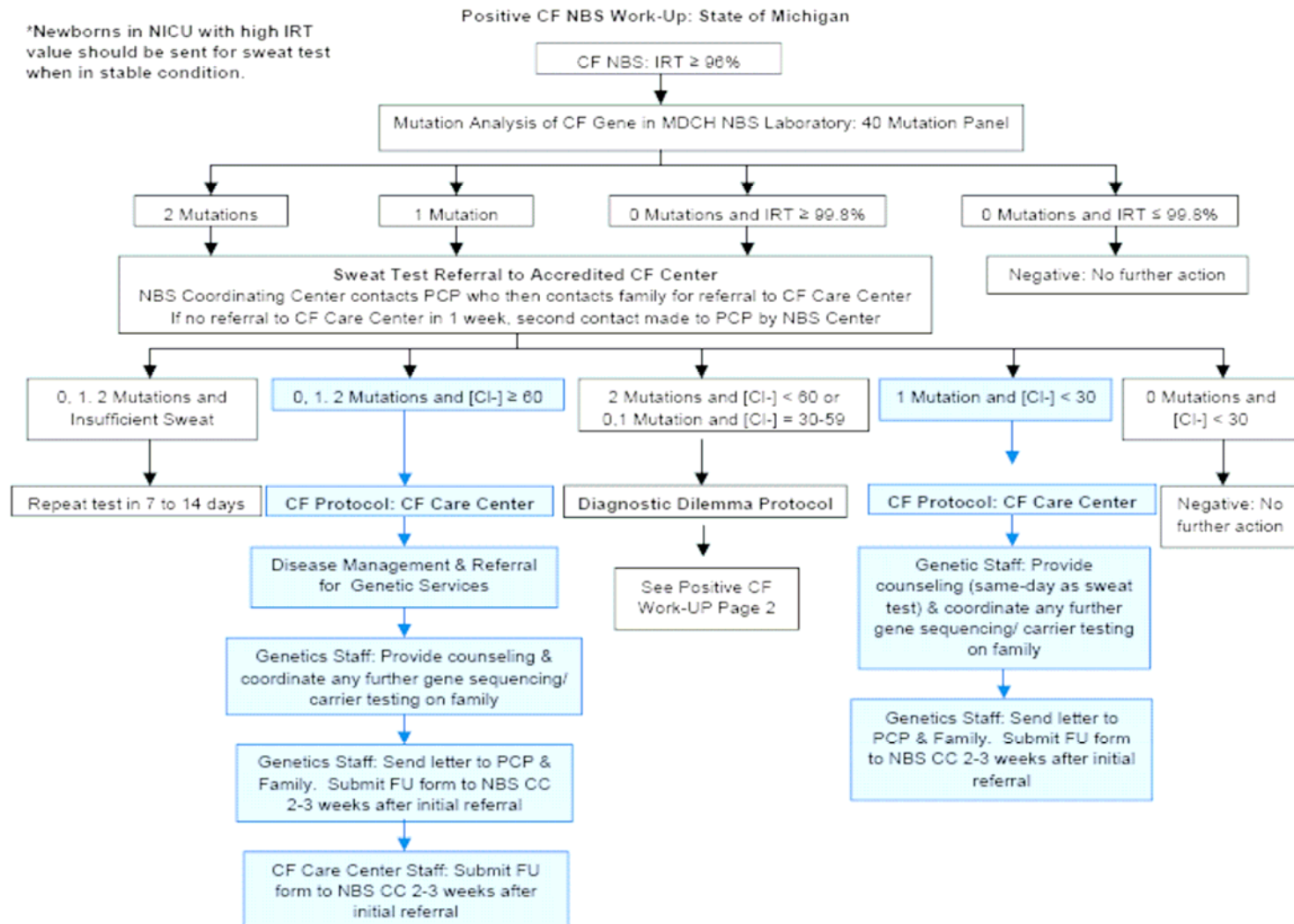
Newborn Screening for CF



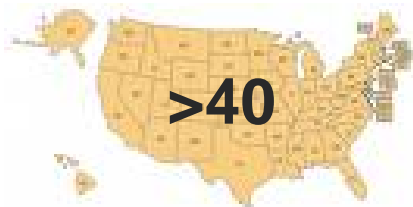
**Newborns in the NICU with high IRT value should be sent for sweat test when in stable condition.*

Newborn Screening for CF

*Newborns in NICU with high IRT value should be sent for sweat test when in stable condition.

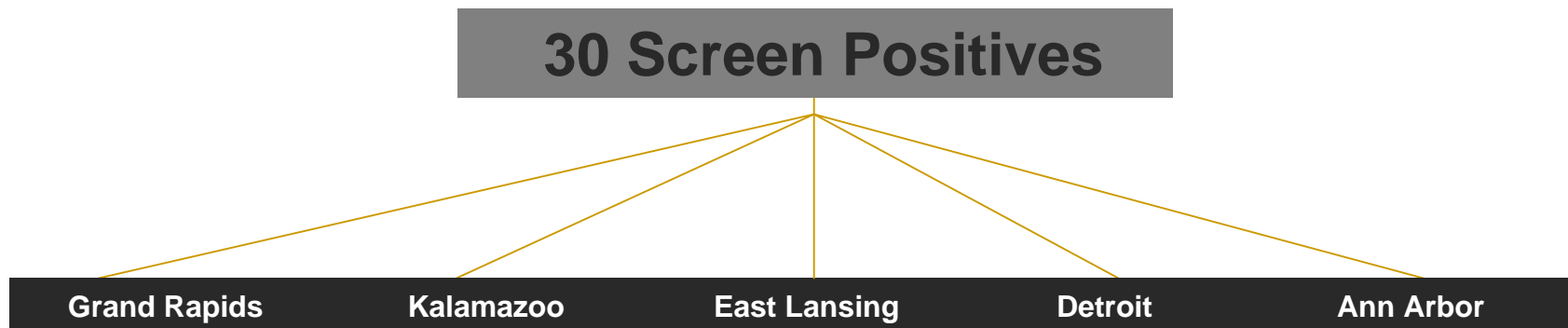


[Newborn Screening for CF: Nationwide Experience]



- Predictions for MI
 - 350 Screen Positives
 - 35 Cases of CF
 - Sensitivity ~97%
 - Missing 1 case
 - Specificity ~99.7%

Newborn Screening for CF: Michigan's Experience



Continued Collaboration & Communication