Evolution of Texas Newborn Screening

1963
TEXAS BEGINS PHENYLKETONURIA PILOT

1965
STATEWIDE PHENYLKETONURIA

1978
- HOMOCYSTINURIA
- GALACTOSEMIA

1980
- CONGENITAL HYPOTHYROIDISM
- 2ND SCREEN RECOMMENDED

1983
- HEMOGLOBIN DISORDERS
- 2ND SCREEN REQUIRED
- HOMOCYSTINURIA DISCONTINUED

1989
CONGENITAL ADRENAL HYPERPLASIA

1999
HEARING SCREENING

2006
EXPANDED NEWBORN SCREENING BEGINS

ADDITIONAL AMINO ACID DISORDERS:
- ARGININOSUCCINIC ACIDURIA
- CITRULLINEMIA, TYPE I
- HOMOCYSTINURIA
- MAPLE SYRUP URINE DISEASE
- TYROSINEMIA, TYPE I

ORGANIC ACID DISORDERS:
- GLUTARIC ACIDEMIA, TYPE I
- 3-HYDROXY-3-METHYGLUTARIC ACIDIURIA
- ISOVALERIC ACIDEMIA
- HOLOCARBOXYLASE SYNTHASE DEFICIENCY
- 3 -METHYLCROTONYL-COA CARBOXYLASE DEFICIENCY
- METHYLMALONIC ACIDEMIA (COBALAMIN DISORDERS-CBL A,B)
- METHYLMALONIC ACIDEMIA (METHYLMALONIC-COAMUTASE)
- PROPIONIC ACIDEMIA
- BETA-KETOTHIOLASE DEFICIENCY

FATTY ACID DISORDERS:
- VERY LONG CHAIN ACYL-COA DEHYDROGENASE DEFICIENCY
- MEDIUM CHAIN ACYL-COA DEHYDROGENASE DEFICIENCY
- LONG CHAIN L-3-HYDROXYACYL-COA DEHYDROGENASE DEFICIENCY
- TRIFUNCTIONAL PROTEIN DEFICIENCY
- CARNITINE UPTAKE DEFICIENCY
- CARNITINE PALMITOYLTRANSFERASE TYPE I DEFICIENCY

2007
BIOTINIDASE DEFICIENCY

2009
CYSTIC FIBROSIS

2012
SEVERE COMBINED IMMUNODEFICIENCY

2013
CRITICAL CONGENITAL HEART DISEASE

2015
ADDED 24 SECONDARY TARGETS FOR AMINO, ORGANIC, AND FATTY ACID DISORDERS

2019
X-LINKED ADRENOLEUKODYSTROPHY

2021
SPINAL MUSCULAR ATROPHY

2025
LYSOSOMAL DISEASES:
MUCOPOLYSACCHARIDOSIS TYPE I
MUCOPOLYSACCHARIDOSIS TYPE II
POMPE DISEASE
INFANTILE KRABBE DISEASE

2026
GUANIDINOACETATE METHYLTRANSFERASE DEFICIENCY

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