Evolution of Texas Newborn Screening

1963 — TEXAS BEGINS PHENYLKETONURIA (PKU) PILOT SCREENING

1965 — STATEWIDE PHENYLKETONURIA (PKU) SCREENING

1978 — HOMOCYSTINURIA (HCY) + GALACTOSEMIA (GALT) SCREENING

1980 — CONGENITAL HYPOTHYROIDISM (CH) SCREENING + 2ND SCREEN RECOMMENDED

1983 — HEMOGLOBIN DISORDER SCREENING 2ND SCREEN REQUIRED HCY SCREENING DISCONTINUED (UNTIL 2006)

1989 — CONGENITAL ADRENAL HYPERPLASIA (CAH) SCREENING

1999 — HEARING SCREENING

2006 — EXPANDED NEWBORN SCREENING BEGINS

2007 — BIOTINIDASE DEFICIENCY (BIOT) SCREENING

2009 — CYSTIC FIBROSIS (CF) SCREENING

2012 — SEVERE COMBINED IMMUNODEFICIENCY (SCID) SCREENING

ADDITIONAL AMINO ACID DISORDERS:

- ARGININOSUCCINIC ACIDURIA (ASA)
- CITRULLINEMIA, TYPE I (CIT)
- HOMOCYSTINURIA (HCY)
- MAPLE SYRUP URINE DISEASE (MSUD)
- TYROSINEMIA TYPE I (TYRI)

ORGANIC ACID DISORDERS:

- GLUTARIC ACIDEMIA, TYPE I (GA-I)
- 3-HYDROXY-3-METHYGLUTARIC ACIDIURIA (HMG)
- ISOVALERIC ACIDEMIA (IVA)
- HOLOCARBOXYLASE SYNTHASE DEFICIENCY
- 3 -METHYLCROTONYL-COA CARBOXYLASE DEFICIENCY (3-MCC)
- METHYLMALONIC ACIDEMIA (COBALAMIN DISORDERS-CBL A,B)
- METHYLMALONIC ACIDEMIA (METHYLMALONIC-COA MUTASE)
- PROPIONIC ACIDEMIA (PROP)
- BETA-KETOTHIOLASE DEFICIENCY (BKT)

FATTY ACID DISORDERS:

- VERY LONG CHAIN ACYL-COA DEHYDROGENASE DEFICIENCY (VLCAD)
- MEDIUM CHAIN ACYL-COA DEHYDROGENASE DEFICIENCY (MCAD)
- LONG CHAIN L-3-HYDROXYACYL-COA DEHYDROGENASE DEFICIENCY (LCHAD)
- TRIFUNCTIONAL PROTEIN DEFICIENCY (TFP)
- CARNITINE UPTAKE DEFICIENCY (CUD)
- CARNITINE PALMITOYLTRANSFERASE TYPE I DEFICIENCY (CPTI)

2013 — CRITICAL CONGENITAL HEART DISEASE (CCHD) SCREENING

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

2019 — X-LINKED ADRENOLEUKODYSTROPHY (X-ALD) SCREENING

2021 — SPINAL MUSCULAR ATROPHY (SMA) SCREENING

2025 — LYSOSOMAL DISEASES:

-MUCOPOLYSACCHARIDOSIS TYPE I
-MUCOPOLYSACCHARIDOSIS TYPE II
-POMPE DISEASE
-INFANTILE KRABBE DISEASE

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