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

ADDITIONAL AMINO ACID DISORDERS:
- ARGININOSUCCINIC ACIDEMIA (ASA)
- CITRULLINEMIA (CIT)
- HOMOCYSTINURIA (HCY)
- MAPLE SYRUP URINE DISEASE (MSUD)
- TYROSINEMIA TYPE I (TYRI)

ORGANIC ACID DISORDERS:
- GLUTARIC ACIDEMIA I (GA-I)
- 3-OH 3-METHYL GLUTARIC ACIDURIA (HMG)
- ISOVALERIC ACIDEMIA (IVA)
- MULTIPLE CARBOXYLASE DEFICIENCY (MCD)
- 3 -METHYLCROTONYL-COA CARBOXYLASE DEFICIENCY (3-MCC)
- METHYLMALONIC ACIDEMIA (MMA)
- PROPIONIC ACIDEMIA (PA)
- BETA-KETOTHIOLASE DEFICIENCY (BKT)

FATTY ACID DISORDERS:
- VERY LONG-CHAIN ACYL-COA DEHYDROGENASE DEFICIENCY (VLCAD)
- MEDIUM-CHAIN ACYL-COA DEHYDROGENASE DEFICIENCY (MCAD)
- LONG-CHAIN HYDROXYACYL-COA DEHYDROGENASE DEFICIENCY (LCHAD)
- TRIFUNCTIONAL PROTEIN DEFICIENCY (TFP)
- CARNITINE UPTAKE DEFICIENCY (CUD)
- CARNITINE PALMITOYL TRANSFERASE DEFICIENCY1 (CPT1)

2007
BIOTINIDASE DEFICIENCY (BIOT) SCREENING

2009
CYSTIC FIBROSIS (CF) SCREENING

2012
SEVERE COMBINED IMMUNODEFICIENCY (SCID) SCREENING

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

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