

DISORDERS DETECTED BY LAPS SUOMEN METABOLIC SCREENING TEST 1STEP [COMPREHENSIVE]

Disorders Detected by Tandem Mass Spectrometry

Non-ketotic hyperglycinemia (NKH) cannot be reliably detected by MS/MS technology.

ACYLCARNITINE PROFILE

Fatty Acid Oxidation Disorders

Carnitine/Acylcarnitine Translocase Deficiency (Translocase)
3-Hydroxy Long Chain Acyl-CoA Dehydrogenase Deficiency (LCHAD)
Medium Chain Acyl-CoA Dehydrogenase Deficiency (MCAD)
Multiple Acyl-CoA Dehydrogenase Deficiency (MADD or
Glutaric Acidemia-Type II)

Neonatal Carnitine Palmitoyl Transferase Deficiency-Type II (CPT-II) Short Chain Acyl-CoA Dehydrogenase Deficiency (SCAD) Short Chain Hydroxy Acyl-CoA Dehydrogenase Deficiency (SCHAD)

Trifunctional Protein Deficiency (TFP Deficiency)

Very Long Chain Acyl-CoA Dehydrogenase Deficiency (VLCAD)

Organic Acid Disorders

3-Hydroxy-3-Methylglutaryl-CoA Lyase Deficiency (HMG) Glutaric Acidemia-Type I (GA I)

Isobutyryl-CoA Dehydrogenase Deficiency

Isovaleric Acidemia (IVA)

Acute onset Chronic

2-Methylbutyryl-CoA Dehydrogenase Deficiency

3-Methylcrotonyl-CoA Carboxylase Deficiency (3MCC Def.)

3-methylglutaconyl-CoA Hydratase Deficiency

Methylmalonic Acidemias

Methylmalonyl-CoA Mutase Deficiency 0 Methylmalonyl-CoA Mutase Deficiency + Some Adenosylcobalamin Synthesis Defects

Maternal Vitamin B12 Deficiency

Mitochondrial Acetoacetyl-CoA Thiolase Deficiency

(3-Ketothiolase Def.)

Propionic Acidemia (PA)

Acute onset

Late onset

Multiple CoA Carboxylase Deficiency

AMINO ACID PROFILE

Amino Acid Disorders

Argininemia

Argininosuccinic Aciduria (ASA Lyase Deficiency)

Acute onset

Late onset

Citrullinemia (ASA Synthetase Deficiency)

Acute onset

Late onset

Homocystinuria²

Hypermethioninemia

Maple Syrup Urine Disease (MSUD)

Classical MSUD

Intermediate MSUD

Phenylketonuria (PKU)

Classical PKU

Hyperphenylalaninemia

Biopterin Cofactor Deficiencies (4)

Tyrosinemia

Transient Neonatal Tyrosinemia Tyrosinemia Type II (Tyr II) Tyrosinemia Type III (Tyr III)

OTHER ABNORMAL PROFILES

Hyperalimentation Liver Disease Medium Chain Triglyceride (MCT) Oil Administration Presence of EDTA Anticoagulants in blood specimen Treatment with Benzoate, Pyvalic Acid, or Valproic Acid

Older and High Risk Patients Only (children who are ill or at least 7 days of age)

Carbamoylphosphate Synthetase Deficiency (CPS Def.) Carnitine Palmitoyl Transferase Deficiency Type I (CPT-I) 2,4-Dienoyl-CoA Reductase Deficiency 5-Oxoprolinuria (Pyroglutamic Aciduria) Hyperammonemia, Hyperornithinemia, Homocitrullinemia Syndrome (HHH) Hyperornithinemia with Gyral Atrophy Malonic Aciduria

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Disorders Detected by Other Technologies

Biotinidase Deficiency

Complete Deficiency Partial Deficiency

Congenital Adrenal Hyperplasia

Salt Wasting 21-Hydroxylase Deficiency Simple Virilizing 21-Hydroxylase Deficiency

Cystic Fibrosis (not valid after 3 months of age)

Galactosemia

Galactokinase Deficiency Galactose-1-Phosphate Uridyltransferase Def. Galactose-4-Epimerase Deficiency

Glucose-6-Phosphate Dehydrogenase Deficiency

Congenital Hypothyroidism (not valid after 2 months of age)

Sickle Cell Hemoglobinopathies

Hemoglobin S Disease Hemoglobin S/C Disease

Hemoglobin S/Beta-Thalassemia Disease

Hemoglobin C Disease Hemoglobin E Disease

- The analyses conducted by Pediatrix Screening produce results that can be used by qualified physicians in the diagnosis of disorders
 described herein. While evidence of these conditions will be detected in the vast majority of affected individuals, due to genetic variability,
 it may not be detected in all.
- Due to genetic variability, the possible lack of detectability in newborns for this disorder, and/or statistical uncertainty, results may not
 detect the disorder in a higher percentage of the sampled population, when compared with the results achievable in the newborn
 screening program, as a whole.

