Nebraska Newborn Screening Program Panel Core Conditions[1]

Every baby born in Nebraska is required to have testing for the following treatable disorders (Core Conditions). Secondary Conditions may be detected by screening for core conditions)

X: Condition is in this category --: Condition is not in this category

Core Condition	Metabolic Disorder - Organic Acid Condition	Metabolic Disorder -Fatty Acid Oxidation Disorder	Metabolic Disorder - Amino Acid Disorder	Endocrine Disorder	Hemoglobin Disorder	Other Disorder
Propionic Acidemia	**X**	--	--	--	--	--
Methylmalonic Acidemia (Methylmalonyl-Coa Mutase)	**X**	--	--	--	--	--
Methylmalonic Acidemia (Cobalamin Disorders)	**X**	--	--	--	--	--
Isovaleric Acidemia	**X**	--	--	--	--	--
3-Methylcrotonyl-Coa Carboxylase Deficiency	**X**	--	--	--	--	--
3-Hydroxy-3-Methyglutaric Aciduria	**X**	--	--	--	--	--
Holocarboxylase Synthase Deficiency	**X**	--	--	--	--	--
ß-Ketothiolase Deficiency	**X**	--	--	--	--	--
Glutaric Acidemia Type I	**X**	--	--	--	--	--

Core Condition	Metabolic Disorder - Organic Acid Condition	Metabolic Disorder -Fatty Acid Oxidation Disorder	Metabolic Disorder - Amino Acid Disorder	Endocrine Disorder	Hemoglobin Disorder	Other Disorder
Carnitine Uptake Defect/Carnitine Transport Defect	--	**X**	--	--	--	--
Medium-Chain Acyl-Coa Dehydrogenase Deficiency	--	**X**	--	--	--	--
Very Long-Chain Acyl-Coa Dehydrogenase Deficiency	--	**X**	--	--	--	--
Long-Chain L-3 Hydroxyacyl-Coa Dehydrogenase Deficiency	--	**X**	--	--	--	--
Trifunctional Protein Deficiency	--	**X**	--	--	--	--
Argininosuccinic Aciduria	--	--	**X**	--	--	--
Citrullinemia, Type I	--	--	**X**	--	--	--
Maple Syrup Urine Disease	--	--	**X**	--	--	--
Homocystinuria	--	--	**X**	--	--	--
Classic Phenylketonuria	--	--	**X**	--	--	--
Tyrosinemia, Type I	--	--	**X**	--	--	--
Primary Congenital Hypothyroidism	--	--	--	**X**	--	--

Core Condition	Metabolic Disorder - Organic Acid Condition	Metabolic Disorder -Fatty Acid Oxidation Disorder	Metabolic Disorder - Amino Acid Disorder	Endocrine Disorder	Hemoglobin Disorder	Other Disorder
Congenital Adrenal Hyperplasia	--	--	--	**X**	--	--
S,S Disease (Sickle Cell Anemia)	--	--	--	--	**X**	--
S, Beta-Thalassemia	--	--	--	--	**X**	--
S,C Disease	--	--	--	--	**X**	--
Biotinidase Deficiency	--	--	--	--	--	**X**
Critical Congenital Heart Disease	--	--	--	--	--	**X**
Cystic Fibrosis	--	--	--	--	--	**X**
Classic Galactosemia	--	--	--	--	--	**X**
Glycogen Storage Disease Type II (Pompe)	--	--	--	--	--	**X**
Hearing Loss	--	--	--	--	--	**X**
Severe Combined Immunodeficiencies	--	--	--	--	--	**X**
Mucopolysaccharidosis Type I	--	--	--	--	--	**X**
X-Linked Adrenoleukodystrophy	--	--	--	--	--	**X**

Core Condition	Metabolic Disorder - Organic Acid Condition	Metabolic Disorder -Fatty Acid Oxidation Disorder	Metabolic Disorder - Amino Acid Disorder	Endocrine Disorder	Hemoglobin Disorder	Other Disorder
Spinal Muscular Atrophy Due To Homozygous Deletion Of Exon 7 In SMN1	--	--	--	--	--	X

Nebraska Newborn Screening Secondary[2] Conditions [1]

Secondary Condition	Metabolic Disorder - Organic Acid Condition	Metabolic Disorder -Fatty Acid Oxidation Disorder	Metabolic Disorder - Amino Acid Disorder	Endocrine Disorder	Hemoglobin Disorder	Other Disorder
Methylmalonic Acidemia With Homocystinuria	X	--	--	--	--	--
Malonic Acidemia	X	--	--	--	--	--
Isobutyrylglycinuria	X	--	--	--	--	--
2-Methylbutyrylglycinuria	X	--	--	--	--	--
3-Methylglutaconic Aciduria	X	--	--	--	--	--
2-Methyl-3-Hydroxybutyric Aciduria	X	--	--	--	--	--
Short-Chain Acyl-Coa Dehydrogenase Deficiency	--	X	--	--	--	--
Medium/Short-Chain L-3-Hydroxyacyl-Coa Dehydrogenase Deficiency	--	X	--	--	--	--
Glutaric Acidemia Type II	--	X	--	--	--	--
Medium-Chain Ketoacyl-Coa Thiolase Deficiency	--	X	--	--	--	--
2,4 Dienoyl-Coa Reductase Deficiency	--	X	--	--	--	--
Carnitine Palmitoyltransferase Type I Deficiency	--	X	--	--	--	--
Carnitine Palmitoyltransferase Type II Deficiency	--	X	--	--	--	--

Secondary Condition	Metabolic Disorder - Organic Acid Condition	Metabolic Disorder -Fatty Acid Oxidation Disorder	Metabolic Disorder - Amino Acid Disorder	Endocrine Disorder	Hemoglobin Disorder	Other Disorder
Carnitine Acylcarnitine Translocase Deficiency	--	**X**	--	--	--	--
Argininemia	--	--	**X**	--	--	--
Citrullinemia, Type II	--	--	**X**	--	--	--
Hypermethioninemia	--	--	**X**	--	--	--
Benign Hyperphenylalaninemia	--	--	**X**	--	--	--
Biopterin Defect in Cofactor Biosynthesis	--	--	**X**	--	--	--
Tyrosinemia, Type II	--	--	**X**	--	--	--
Tyrosinemia, Type III	--	--	**X**	--	--	--
Various Other Hemoglobinopathies	--	--	**--**	**--**	**X**	**--**
Galactoepimerase Deficiency	--	--	**--**	**--**	**--**	**X**
Galactokinase Deficiency	--	--	**--**	**--**	**--**	**X**
T-Cell Related Lymphocyte Deficiencies	--	--	**--**	**--**	**--**	**X**

1.Nomenclature for Conditions based upon “Naming and Counting Disorders (Conditions) Included in Newborn Screening Panels.” *Pediatrics*. 2006; 117 (5) Suppl: S308-S314.

2. Disorders that can be detected in the differential diagnosis of a core disorder.