



# National Newborn Screening Status Report

Updated 12/17/09

The U.S. National Screening Status Report lists the status of newborn screening in the United States.

Dot "●" indicates that screening for the condition is universally required by Law or Rule and fully implemented

**A** = universally offered but not yet required, **B** = offered to select populations, or by request, **C** = testing required but not yet implemented

**D** = likely to be detected (and reported) as a by-product of MRM screening (MS/MS) targeted by Law or Rule

STATE	Core <sup>1</sup> Conditions									Additional Conditions Included in Screening Panel (universally required unless otherwise indicated)
	Hearing	Endocrine		Hemoglobin			Other			
	HEAR	CH	CAH	Hb S/S	Hb S/A	Hb S/C	BIO	GALT	CF	
Alabama	●	●	●	●	●	●	●	●	●	
Alaska	●	●	●	●	●	●	●	●	●	
Arizona	A	●	●	●	●	●	●	●	●	
Arkansas	●	●	●	●	●	●	●	●	●	
California	B	●	●	●	●	●	●	●	●	HHH; PRO; EMA
Colorado	●	●	●	●	●	●	●	●	●	
Connecticut	●	●	●	●	●	●	●	●	●	HHH; HIV <sup>2</sup> ; NKH G6PD
D.C.	●	●	●	●	●	●	●	●	●	
Delaware	●	●	●	●	●	●	●	●	●	
Florida	●	●	●	●	●	●	●	●	●	
Georgia	A	●	●	●	●	●	●	●	●	
Hawaii	●	●	●	●	●	●	●	●	●	
Idaho	A	●	●	●	●	●	●	●	●	
Illinois	●	●	●	●	●	●	●	●	●	NKH, 5-OXO, HIV <sup>2</sup>
Indiana	●	●	●	●	●	●	●	●	●	
Iowa	●	●	●	●	●	●	●	●	●	
Kansas	●	●	●	●	●	●	●	●	●	
Kentucky	A	●	●	●	●	●	●	●	●	
Louisiana	●	●	●	●	●	●	●	●	●	
Maine	A	●	●	●	●	●	●	●	●	HHH; CPS (D)
Maryland	●	●	●	●	●	●	●	●	●	EMA
Massachusetts	●	●	●	●	●	●	●	●	●	TOXO; HHH, SCID (A); CPS (D)
Michigan	●	●	●	●	●	●	●	●	●	
Minnesota	●	●	●	●	●	●	●	●	●	
Mississippi	●	●	●	●	●	●	●	●	●	5-OXO; CPS; HHH
Missouri	●	●	●	●	●	●	●	●	●	
Montana	●	●	●	●	●	●	●	●	●	
Nebraska	A	●	●	●	●	●	●	●	●	5-OXO; HHH; NKH (A)
Nevada	A	●	●	●	●	●	●	●	●	
New Hampshire	A	●	●	●	●	●	●	●	●	TOXO
New Jersey	●	●	●	●	●	●	●	●	●	
New Mexico	●	●	●	●	●	●	●	●	●	
New York	●	●	●	●	●	●	●	●	●	HIV; HHH; Krabbe Disease
North Carolina	●	●	●	●	●	●	●	●	●	
North Dakota	A	●	●	●	●	●	●	●	●	HHH; NKH
Ohio	●	●	●	●	●	●	●	●	●	
Oklahoma	●	●	●	●	●	●	C	●	●	
Oregon	A	●	●	●	●	●	●	●	●	
Pennsylvania	●	●	●	●	●	●	●	●	●	5-OXO; CPS; G6PD; HHH; NKH (B)
Rhode Island	●	●	●	●	●	●	●	●	●	
South Carolina	●	●	●	●	●	●	●	●	●	
South Dakota	A	●	●	●	●	●	●	●	●	5-OXO; EMA; HHH; NKH
Tennessee	●	●	●	●	●	●	●	●	●	HHH; NKH
Texas	B	●	●	●	●	●	●	●	●	
Utah	●	●	●	●	●	●	●	●	●	
Vermont	●	●	●	●	●	●	●	●	●	
Virginia	●	●	●	●	●	●	●	●	●	
Washington	A	●	●	●	●	●	●	●	●	
West Virginia	●	●	●	●	●	●	●	●	●	
Wisconsin	A	●	●	●	●	●	●	●	●	SCID
Wyoming	●	●	●	●	●	●	●	●	●	

<sup>1</sup>Terminology consistent with ACMG report - Newborn Screening: Towards a Uniform Screening Panel and System. Genet Med. 2006; 8(5) Suppl: S12-S252

<sup>2</sup>Newborn screened for HIV only if mother was not screened during pregnancy

### Additional Conditions/Abbreviations and Names

<b>BIO</b>	Biotinidase	<b>CF</b>	Cystic fibrosis	<b>GALT</b>	Transferase deficient galactosemia (Classical)	<b>HB S/C</b>	Sickle – C disease	<b>HEAR</b>	Hearing screening
<b>CAH</b>	Congenital adrenal hyperplasia	<b>CH</b>	Congenital hypothyroidism	<b>HB S/S</b>	Sickle cell anemia	<b>HB S/A</b>	S-beta thalassemia		

### Other Disorders

<b>5-OXO</b>	5-oxoprolinuria (pyroglutamic aciduria)	<b>G6PD</b>	Glucose 6 phosphate dehydrogenase	<b>NKH</b>	Nonketotic hyperglycinemia
<b>CPS</b>	Carbamoylphosphate synthetase	<b>HHH</b>	Hyperammonemia/ornithinemia/ citrullinemia (Ornithine transporter defect)	<b>PRO</b>	Prolinemia
<b>EMA</b>	Ethylmalonic encephalopathy	<b>HIV</b>	Human immunodeficiency virus	<b>TOXO</b>	Toxoplasmosis

hat screening for the condition is universally required by Law or Rule and fully implemented  
**A** = universally offered but not yet required, **B** = offered to select populations, or by request, **C** = testing required but not yet implemented  
**D** = likely to be detected (and reported) as a by-product of MRM screening (MS/MS) targeted by Law or Rule

STATE	Core <sup>1</sup> Conditions - Metabolic																			
	Fatty Acid Disorders					Organic Acid Disorders								Amino Acid Disorders						
	CUD	LCHAD	MCAD	TFP	VLCAD	GA-I	HMG	IVA	3-MCC	Cbl-A,B	BKT	MUT	PROP	MCD	ASA	CIT	HCY	MSUD	PKU	TYR-I
Alabama	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Alaska	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Arizona	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Arkansas	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
California	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Colorado	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Connecticut	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
D. of Columbia	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Delaware	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Florida	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Georgia	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Hawaii	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Idaho	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Illinois	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Indiana	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Iowa	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Kansas	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Kentucky	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Louisiana	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Maine	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Maryland	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Massachusetts	●	●	●	D	●	●	●	●	D	●	●	●	●	D	●	●	●	●	●	●
Michigan	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Minnesota	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Mississippi	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Missouri	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Montana	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Nebraska	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Nevada	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
New Hampshire	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
New Jersey	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
New Mexico	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
New York	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
North Carolina	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
North Dakota	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Ohio	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Oklahoma	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Oregon	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Pennsylvania	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Rhode Island	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
South Carolina	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
South Dakota	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Tennessee	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Texas	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Utah	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Vermont	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Virginia	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Washington	●	●	●	●	●	●	●	●	D	●	●	●	●	●	●	●	●	●	●	●
West Virginia	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Wisconsin	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Wyoming	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●

<sup>1</sup>Terminology consistent with ACMG report - Newborn Screening: Towards a Uniform Screening Panel and System. Genet Med. 2006; 8(5) Suppl: S12-S252

### Deficiency/Disorder Abbreviations and Names (optional nomenclature)

3-MCC	3-Methylcrotonyl-CoA carboxylase	CUD	Carnitine uptake defect (Carnitine transport defect)	LCHAD	Long-chain L-3- hydroxyacyl-CoA dehydrogenase	PKU	Phenylketonuria/ hyperphenylalaninemia
ASA	Argininosuccinate aciduria	GA-I	Glutaric acidemia type 1	MCAD	Medium-chain acyl-CoA dehydrogenase	PROP	Propionic acidemia (Propionyl-CoA carboxylase)
BKT	Beta ketothiolase (mitochondrial acetoacetyl-CoA thiolase ; short-chain ketoacyl thiolase; T2)	HCY	Homocystinuria (cystathionine beta synthase)	MCD	Multiple carboxylase (Holocarboxylase synthetase )	TFP	Trifunctional protein deficiency
CBL A,B	Methylmalonic acidemia (Vitamin B12 Disorders)	HMG	3-Hydroxy 3 - methylglutaric aciduria (3-Hydroxy 3-methylglutaryl-CoA lyase )	MSUD	Maple syrup urine disease (branched-chain ketoacid dehydrogenase )	TYR-I	Tyrosinemia Type 1
CIT I	Citrullinemia type I (Argininosuccinate synthetase)	IVA	Isovaleric acidemia (Isovaleryl-CoA dehydrogenase )	MUT	Methylmalonic Acidemia (methylmalonyl-CoA mutase)	VLCAD	Very long-chain acyl-CoA dehydrogenase

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STATE	Secondary Target <sup>1</sup> Conditions																								
	Fatty Acid Disorders							Organic Acid Disorders						Amino Acid Disorders						Other Metabolic		Hgb			
	CACT	CPT-Ia	CPT-II	DE-RED.	GA-II	MCKAT	M/SCHAD	SCAD	2M3HBA	2MBG	3MGA	Cbl-C,D	IBG	MAL	ARG	BIOPT-BS	BIOPT-REG	CIT-II	H-PHE	MET	TYR-II	TYR-III	GALE	GALK	Variant Hgb's
Alabama	●		●		●			●	●	●	●				●	●	●	●	●	●	●			●	
Alaska	●	●	●		●		●	●	●	●	●	●	●	●	B	B	●	●	●	●	●		B	B	●
Arizona	D	D	D		D			D		D	D						D	D		D	D				D
Arkansas																									●
California	●	●	●		●		●	●	●	●	●	●	●	●	●	●	●	●	●	●	●				●
Colorado	●	●	●	●	●	●	●	●	●	●	●	●	●	●			●	●	●	●	●				●
Connecticut	●	●	●	●	●		●	●	●	●	●	●	●	●			●	●	●	●	●		●	●	●
D. of Columbia	●	●	●	●	●	●	●	●	●	●	●	●	●	●	A	A	●	●	●	●	●		●	●	●
Delaware	●	●	●		●	D		●	D	D	●	●		●	D	D	●	●	●	●	●		●	●	●
Florida	●	●	●		●		●												●	●	●				●
Georgia	●	D			●	D	●	●	D	●	●	D	D	A			●	●	●	●	●		B	B	●
Hawaii	●	●	●		●		●	●	●	●	●	●	●	●	B	B	●	●	●	●	●		B	B	●
Idaho	●	●	●		●		●	●	●	●	●	●	●	●	B	B	●	●	●	●	●		B	B	●
Illinois	●	D	●	D	●	D	●	D	●	●	●	●	●	●	D	D	D	●	●	●	●		●	●	●
Indiana	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●				●
Iowa	●	●	●		●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●				●
Kansas																									●
Kentucky	A	A	A		A		●	A	A	A	A	A	A	A	D	D	A	●	A	A	A				●
Louisiana																									●
Maine	D	D	●		●		●		D	D	●	D		●			●	●	D	●	D		●	●	●
Maryland	●	●	●	●	●	●	●	●	●	●	●	●	●	●	B	B	●	●	●	●	●		●	●	●
Massachusetts	D	D	A	A	D	D	A	D	D	D	●	D	A	●	D	D	A	D	D	D	D		D	D	●
Michigan	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●				●
Minnesota	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●		●	●	●
Mississippi	●	●	●	A	●	A	●	A	●	●	●	●	●	●	A	A	●	●	●	●	●		●	●	●
Missouri	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●				●
Montana	D		D	D	D	D	D	D	D	D	D	D	D		D	D	D	●	D	D	D				●
Nebraska	A		A		A		A		A	A	A	A	A	A	B	B	A	●	A	A					●
Nevada	●	●	●		●		●	●	●	●	●	●	●	●	●	●	●	●	●	●	●		B	B	A
New Hampshire	D	D	●		●		●		D	D	D			●	D	D	D	●	D				●	●	●
New Jersey	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●		●	●	●
New Mexico	A	D	A		A		A	D	D	A	A	D	D	D	B	B	A	A	A	A	D		B	B	●
New York	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●				●
North Carolina	●		●		●		●	●	●	●	●	●	●	●	●	●	●	●	●	●	●				●
North Dakota	●	●	●		●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●				●
Ohio	●	●	●		●		●	●	●	●	●	●	●	●	●	●	●	●	●	●	●				●
Oklahoma	●	●	●		●	D		●	●	●	●	●	●	●	●	●	●	●	●	●	●				●
Oregon	●	D	●		●		●	D	D	●	●	D	D	D	B	B	●	●	●	●	●		B	B	●
Pennsylvania	B	B	B	B	B		B	B	B	B	B	B	B	B	B	B	B	●	B	B	B		●	●	●
Rhode Island		D																							●
South Carolina	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●		●	●	●
South Dakota	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●				●
Tennessee	●	●	●	●	●	D	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●		●	●	●
Texas	D	D	D	C	D	C	C	D	D	D	D	C	C	C	D	D	D	●	D	D	D				●
Utah	●	●	●		●	D		●	●	D	●	●	●	●	●	●	●	●	●	●	●				●
Vermont	D	D	D		D				D	D	●			D			●	●	D	D	D		●	●	●
Virginia	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	●	D	D	D		D	D	●
Washington	D		D		D	D		D	D	D	D				D	D	●	D	D						●
West Virginia	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	●	D	D	D	D		●	●	●
Wisconsin	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●				●
Wyoming	A	A	A	A	A	A	A	A	A	A	A	A	A	A			A	●	A	A	B				●

<sup>1</sup>Terminology consistent with ACMG report - Newborn Screening: Towards a Uniform Screening Panel and System. Genet Med. 2006; 8(5) Suppl: S12-S252

### Deficiency/Disorder Abbreviations and Names (optional nomenclature)

2M3HBA	2-Methyl-3-hydroxy butyric aciduria	CACT	Carnitine acylcarnitine translocase	GA-II	Glutaric acidemia Type II	MAL	Malonic acidemia (Malonyl-CoA decarboxylase)
2MBG	2-Methylbutyryl-CoA dehydrogenase	CBL-C,D	Methylmalonic acidemia (Cbl C,D)	GALE	Galactose epimerase	MCKAT	Medium-chain ketoacyl-CoA thiolase
3MGA	3-Methylglutaconic aciduria	CIT-II	Citrullinemia type II	GALK	Galactokinase	MET	Hypermethioninemia
ARG	Argininemia (Arginase deficiency)	CPT-Ia	Carnitine palmitoyltransferase I	H-PHE	Benign hyperphenylalaninemia	SCAD	Short-chain acyl-CoA dehydrogenase
BIOPT-BS	Defects of biotin cofactor biosynthesis	CPT-II	Carnitine palmitoyltransferase II	IBG	Isobutyryl-CoA dehydrogenase	TYR-II	Tyrosinemia type II
BIOPT-REG	Defects of biotin cofactor regeneration	De-Red	Dienoyl-CoA reductase	M/SCHAD	Medium/Short chain L-3-hydroxy acyl-CoA dehydrogenase	TYR-III	Tyrosinemia type III