

Table 2: Sensitivity and Positive Predictive Value of Newborn Screens for Each Disorder⁴

Disorder	Abbrev	New or Existing	# Tiers	Tier 1 (Nov 2009)		Tier 2 (Fall 2010)	
				Sensi-tivity	Pos Predictive Value (PPV)	Sensi-tivity	Positive Predictive Value (PPV)
Metabolic Disorders							
Amino Acid Disorders							
Phenylketonuria	PKU	Existing	1	99%	~100%		
Maple Syrup Urine Disease	MSUD	New	2	80%	21%	95%	95%
Citrullinemia	CIT	New	1	99%	~50%		
Argininosuccinic Acidemia	ASA	New	1	99%	~50%		
Homocystinuria	Hcy	New	2	80%	13%	99%	95%
Tyrosinemia, Type I	Tyr I	New	1	99%	~100%		
Fatty Acid Oxidation Disorders							
Medium-chain Acyl-CoA Dehydrogenase Deficiency	MCAD	Existing	1	99%	100%		
Long-chain Hydroxyacyl-CoA Dehydrogenase	LCHAD	Existing	1	~95%	30%		
Very-long Chain AcylCoA Dehydrogenase Deficiency	VLCAD	New	1	98%	~80%		
Organic Acid Disorders							
Propionic Acidemia	PROP	New	2	93%	15%	98%	95%
Methylmalonic Acidemia	MUT	New	2	93%	15%	98%	95%
Cobalamin Disorders	Cbl A, B	New	2	93%	15%	98%	95%
Glutaric Aciduria, Type I	GA I	Existing	1	99%	39%		
Isovaleric Acidemia	IVA	New	1	98%	50%		
Galactosemia	GALT	Existing	1	99%	20%		
Endocrine Disorders							
Congenital Hypothyroidism	CH	Existing	1	~90%	26%		
Congenital Adrenal Hyperplasia	CAH	New	2	90%	1%	99%	~90%
Hemoglobinopathies (Sickle Cell & Related Disorders)							
Sickle Cell Disease	SCD	New	1	~99%	~85%		
Cystic Fibrosis	CF	New	1	95%	15%		