

## INCIDENCE OF NEWBORN METABOLIC SCREENING DISORDERS IN HAWAII

Disorder	PKU	CH	CAH	MSUD	GAL	BIO	HB
Incidence U.S.	1/18,000	1/4,000	1/15,000	1/250,000	1/60,000	1/70,000	1/15,000 Gen. Pop
Incidence Hawaii (7/97-4/09)	1/42,709 3 classic 2 hyperphe	1/2,512 85 primary	1/21,355 5 salt-wasters 5 virilized	1/42,709 4 classic 1 intermediate	1/106,774 2 classic 19 Duarte Variants	1/35,591 4 partial 2 profound	1/35,591 4 SC Disease 2 SS Disease

Key: PKU (phenylketonuria)  
 CH (congenital hypothyroidism)  
 CAH (congenital adrenal hyperplasia)  
 MSUD (maple syrup urine disease)  
 GAL (galactosemia)  
 BIO (biotinidase deficiency)  
 HB (hemoglobinopathies)

## INCIDENCE OF TANDEM MASS NEWBORN SCREENING DISORDERS IN HAWAII

Disorder	MCADD	VLCADD	3MCC	Holocarboxylase Synthetase Deficiency	?CPT I Variant	IVA	GA-1	SCADD
Incidence U.S.	1/15,000	1/120,000	1/50,000	1/87,000	?	1/230,000	1/40,000	?
Incidence Hawaii (9/03-4/09)	1/35,488 3 cases	1/26,616 4 cases 4 variants	1/35,488 3 cases	1/106,463 1 case	1/17,744 6 cases	1/53,232 2 cases	1/106,463 1 case	1/106,463 1 case

Key: MCADD (Medium Chain Acyl-CoA Dehydrogenase Deficiency)  
 VLCADD (Very Long Chain Acyl-CoA Dehydrogenase Deficiency)  
 3 MCC DEFICIENCY (3 Methylcrotonyl CoA Carboxylase Deficiency)  
 HOLOCARBOXYLASE (Holocarboxylase Synthetase Deficiency)  
 CPT I (Carnitine Palmitoyl Transferase I)  
 IVA (Isovaleric Acidemia)  
 GA-1 (Glutaric Acidemia Type 1)  
 SCADD (Short Chain Acyl-Co-A Dehydrogenase Deficiency)

## INCIDENCE OF CYSTIC FIBROSIS IN HAWAII

Disorder	Cystic Fibrosis
Incidence U.S.	1/4,000
Incidence Hawaii (9/07-4/09)	1/32,147 1 case

