

Diseases Screened by Province



	BC	AB ¹	SK	MB ²	ON ³	QC ⁴	NS ⁵	NB ⁶	PEI ⁵	NL ⁷	YT ⁸	NT ⁹		NU ¹⁰		
												W	E	W	E	
2-Methylbutyryl-CoA Dehydrogenase (2MBG)			Y													
3-Ketothiolase (BKT)			Y		U											
3-Hydroxy 3-Methylglutaryl-CoA lyase (HMG)		U	Y		U	V							U			V
3-Methylcrotonyl-CoA Carboxylase (3MCC)			Y		U	V										V
3-Methylglutaconyl-CoA Hydratase (3MGA)			Y													
Agininemia (ARG)			Y			V										V
Argininosuccinic Aciduria (ASA)					U	V										V
Biotinidase		Y		Y	U								Y	Y	Y	
Carnitine Palmitoyltransferase I (CPT-I)			Y (la – Liver)	T			Y	U	Y					T	T	
Carnitine Palmitoyltransferase II (CPT-II)			Y				Y	U	Y							
Carnitine Uptake Defect (CUD)		U			U		Y	U	Y				U			
Carnitinepalmitoyl Translocase Deficiency (CTL)							Y	U	Y							
Citrullinemia (CIT)		U	Y		U	V							U			V
Citrullinemia Type II			Y			V										V
Congenital Adrenal Hyperplasia (CAH)		U		Y	U								U	Y	Y	
Congenital Hypothyroidism (CH)	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y

Legend:

- | | |
|-----------------------------------------------------------------|------------------------------------------------------------------------|
| Y Currently screens | P Pilot testing |
| Y+ Recent addition or upcoming addition, date identified | T Targeted screening for specific groups/regions |
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												W	E	W	E	
Cystic Fibrosis (CF)		U			U								U			
Duchenne and Becker Muscular Dystrophy (DMD)				T										T	T	
Galactosemia	Y			Y	U						Y			Y	Y	
Glutaric Acidemia Type I (GA I)		U	Y	T	U	V	Y	U	Y				U	T	T	V
Glutaric Acidemia Type II (GA II)			Y				Y	U	Y							
Homocystinuria (HCY)					U					Y+						
Hypermethioninemia			Y													
Isobutyryl-CoA Dehydrogenase (IBG)			Y													
Isovaleric Acidemia (IVA)		U	Y		U	V	Y+	U	Y+				U			V
Long-chain Hydroxyacyl-CoA Dehydrogenase (LCHAD)		U	Y		U		Y+	U	Y+				U			
Maple Syrup Urine Disease (MSUD)		U	Y		U		Y+	U	Y+				U			
Medium-Chain Acyl-CoA Dehydrogenase Deficiency (MCADD)	Y	U	Y		Y+		Y	Y	Y	Y+	Y		U			
Methylmalonic Acidemia (MUT)			Y		U	V										V
Methylmalonic Acidemia - Cbl-A and B		U	Y		U	V							U			V
Methylmalonic Acidemia - Cbl-C, and D			Y			V										V
Multiple Carboxylase Deficiency (MCD)			Y		U											

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Phenylketonuria (PKU)	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
Benign Hyperphenylalaninemia (H PHE)			Y													
Propionic Acidemia (PA)		U	Y		U								U			
Sickle Cell Anemia (Hb SS)					Y+											
Sickle Beta Thalassemia (Hb S/β Th)					Nov 25 2006											
Sickle – Hemoglobin C (Hb S/C)					X 3											
Short-Chain Acyl-CoA Dehydrogenase Deficiency (SCADD)			Y													
Trifunctional Protein deficiency (TFP)		U	Y		U								U			
Tyrosinemia Type I (TYR-I)			Y		U	Y				Y						Y
Tyrosinemia Type II (TYR-II)			Y							Y						
Very Long-Chain Acyl-CoA Dehydrogenase Deficiency (VLCADD)		U	Y		U		Y	U	Y				U			
SUB TOTAL	4	17	31	8	28	14	13	13	13	6	4	17	8	8	14	
Hearing Loss	Y*	Y	Y*	Y*	Y	Y*	Y*	Y	Y*		Y*	Y*			Y*	
TOTAL	5	18	32	9	29	15	14	14	14	6	5	18	9	9	15	

To obtain maximum benefit from newborn screening, Save Babies Through Screening Foundation of Canada recommends that you obtain a test kit from one of the laboratories listed at www.savebabiescanada.org/laboratories.htm **no matter where you live**. Have an extra blood sample drawn 24-48 hours after birth and ship the sample to the laboratory. Older children and adults can also be screened.

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Save Babies Through Screening Foundation of Canada (SBTSFC) makes every effort to ensure the accuracy of this document. However, at this time many provincial newborn screening programs are in a state of transition and as such SBTSFC cannot ensure 100% accuracy. SBTSFC provides this information to the public as a courtesy for educational and informational purposes only, and it is not intended to replace, and should not be interpreted or relied upon as, professional advice, whether medical or otherwise. Conclusions drawn from, or actions undertaken on the basis of, this document are the sole responsibility of the user.

¹ The Alberta newborn screening program is currently being expanded to include: 3-Hydroxy 3-methylglutaryl-CoA lyase (HMG), Carnitine Uptake Defect (CUD), Citrullinemia (CIT), Congenital Adrenal Hypothyroidism, Glutaric Acidemia Type I (GA I), Isovaleric Acidemia (IVA), Long Chain Hydroxy-Acyl-CoA Dehydrogenase Deficiency (LCHAD), Maple Syrup Urine Disease (MSUD), Medium-Chain Acyl-CoA Dehydrogenase Deficiency (MCADD), Methylmalonic Acidemia (Mutase (MUT) deficiency and Cobalamin (Cbl) A and B), Trifunctional protein deficiency (TFP), and Very Long-Chain Acyl-CoA Dehydrogenase Deficiency (VLCADD). The program expansion is expected to be completed by April 1 2007. In addition, the result of the pilot testing for Cystic Fibrosis in the Calgary Health Region is that a test for Cystic Fibrosis will be added as part of the expanded newborn screening program.

² Manitoba has targeted screening for Glutaric Acidemia Type I (GA1) - Ojji-Crees, Carnitinepalmitoyl Transferase Type I (CPT I) - Hutterites, and Duchenne and Becker Muscular Dystrophy (DND) - males.

³ The Ontario screening program is currently undergoing expansion. The program began April 3, 2006, testing for PKU, Congenital Adrenal Hypothyroidism and MCADD. The number of disorders will be increased through the year and by the end of 2006, Ontario will be testing for 27 disorders. The following disorders have yet to be added to the screening program: 3-Hydroxy 3-methylglutaryl-CoA lyase (HMG), 3-Ketothiolase Deficiency (BKT), 3-Methylcrotonyl-CoA carboxylase (3MCC), Argininosuccinic Aciduria Deficiency (ASA), Biotinidase Deficiency, Carnitine Uptake Defect (CUD), Citrullinemia (CIT), Congenital Adrenal Hyperplasia (CAH), Galactosemia, Glutaric Acidemia Type I (GA I), Homocystinuria, Isovaleric acidemia (IVA), Long-chain Hydroxyacyl-CoA Dehydrogenase (LCHAD), Maple Syrup Urine Disease (MSUD), Methylmalonic Acidemia (Mutase (MUT) deficiency and Cobalamin (Cbl) A and B), Multiple carboxylase deficiency (MCD), Propionic acidemia (PA), Sickle Cell Disease and Other Hemoglobinopathies (added November 25, 2006), Trifunctional protein deficiency (TFP), Tyrosinemia (TYR), and Very Long-Chain Acyl-CoA Dehydrogenase Deficiency (VLCADD). On November 23, 2006 Ontario announced that it would expand the program again to include Cystic Fibrosis in late 2007.

⁴ Quebec has a unique voluntary urinary screening program for organic and amino-acid disorders commonly known as the "diaper test".

⁵ On April 1, 2006, Nova Scotia and PEI expanded their programs to add 3 additional genetic diseases.

⁶ This summer (2006), New Brunswick will be expanding its program to add 8 additional genetic diseases.

⁷ The Newfoundland & Labrador was expanded to screen for Homocystinuria in all regions as well as Medium-Chain Acyl-CoA Dehydrogenase Deficiency (MCADD) between June and July 2006.

⁸ Yukon newborn screening program is covered by British Columbia.

⁹ North West Territories - The western part of province is covered by Alberta and the eastern part of the province is covered by Manitoba.

¹⁰ Nunavut - The western part of province is covered by Manitoba and the eastern part is covered by Quebec.

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