Newborn Screening Program - 2024 Annual Report				Specimens Received	
Jan 1-Dec 31 2024				- Initial Valid	186,085
New York State Department of Health				Initial Invalid	20,409
Wadsworth Center	Repeat Requests	22,498		Total Newborns	206,728
120 New Scotland Ave	Borderlines	16,213		Repeat Specimens	40,001
Albany, NY	Referrals	1,866		Total Specimens	246,895
Screened Disorders	Analytes	Borderline	Referrals	Number Confirmed with Disease (Preliminary)	
	ine Disorders	201001110			
Congenital Adrenal Hyperplasia (CAH)	17-Hydroxyprogesterone (17-OHP)	1197	118	Congenital Adrenal Hyperplasia - 21-Hydroxylase Deficiency	6
		1157	110	Congenital Adrenal Hyperplasia, Other Enzyme Deficiency	0
Congenital Hypothyroidism (CH)	Thyroid Stimulating Hormone (TSH)	5878	633	Primary Congenital Hypothyroidism	116
				Secondary Congenital Hypothyroidism	0
				Other	216
Hemogi	obin Disorders	N1/A			0.6
Hemoglobin Disorders	Hemoglobin SS	N/A	111	Hemoglobin S + S (Sickle Cell) Disease	96
	Hemoglobin SC	N/A	68	Hemoglobin S + C Disease	64
	Hemoglobin CC	N/A	28	Hemoglobin C + C Disease	21
	Other Hemoglobins Hemoglobin AS Trait	N/A	29	Other Hemoglobinopathies	28
		4247	N/A		N/A
	Hemoglobin AC Trait	1224 121	N/A		N/A
	Hemoglobin AD Trait	121	N/A		N/A
Infect	Hemoglobin A VAR Trait	120	N/A		N/A
Human Immunodeficiency Virus (HIV)	HIV Antibodies	N/A	274	Confirmed by diagnosis developed by the AIDS Institute.	
Amino	Acid Disorders	•			
Maple Syrup Urine Disease (MSUD)	Leucine	55	2	Maple Syrup Urine Disease (MSUD)	0
				Hydroxyprolinemia	0
Homocystinuria (HCY)	Methionine	411	5	Homocystinuria (HCY)	0
				Hypermethioninemia (MET)	1
Phenylketonuria (PKLI)	enylketonuria (PKU) Phenylalanine	155	18	Phenylketonuria (PKU)	15
				Hyperphenylalaninemia (HPA)	2
Tyrosinemia Type I (TYR I)	Succinylacetone	0	0	Tyrosinemia Type I (TYR I)	0
Tyrosinemia Type II, III (TYR II, III)	Tyrosine	187	11	Tyrosinemia Type II (TYR II)	0
	Tyrosine	107	11	Tyrosinemia Type III (TYR III)	0
Fatty Acid O	xidation Disorders	1			
Carnitine Uptake Defect (CUD)	Free Carnitine (C0), Total Acylcarnitines (SUM AC)	353	15	Carnitine Uptake Defect (CUD)	1
Carnitine Palmitoyltransferase I (CPT I) Deficiency	C0/(C16 + C18)	86	4	Carnitine Palmitoyltransferase I (CPT I) Deficiency	1
Carnitine Palmitoyltransferase II (CPT II) Deficiency/Carnitine-	Hexadecanoylcarnitine (C16),	3	12	Carnitine Palmitoyltransferase II (CPT II) Deficiency	2
Acylcarnitine Translocase Deficiency 2,4-Dienoyl-CoA Reductase Deficiency (DECRD)	Octadecenoylcarnitine (C18:1) Decadienoylcarnitine (C10:2)	45	0	2,4-Dienoyl-CoA Reductase Deficiency (DECRD)	0
	Hydroxyhexadecanoylcarnitine (C16OH),	45	0	Long-Chain 3-Hydroxyacyl-CoA Dehydrogenase (LCHAD) Deficiency	1
Long-Chain 3-Hydroxyacyl-CoA Dehydrogenase (LCHAD)	Hydroxyoctadecenoylcarnitine (C160H),	4	3		
Deficiency/Trifunctional Protein Deficiency (TFP)		174		Trifunctional Protein (TFP) Deficiency	0
Multiple Acyl-CoA Dehydrogenase (MAD) Deficiency/ Medium-				Medium-Chain Acyl-CoA Dehydrogenase (MCAD) Deficiency	9
Chain Acyl-CoA Dehydrogenase (MCAD) Deficiency/Medium-Chain 3	Hexanoylcarnitine (C6), Octanoylcarnitine (C8)			Multiple Acyl-CoA Dehydrogenase (MAD) Deficiency/Glutaric Acidemia Type II (GA II)	0
Keto Acyl-CoA Thiolase (MCKAT) Deficiency				Medium-Chain 3-Keto Acyl-CoA Thiolase (MCKAT) Deficiency	0
	Tetradecanoylcarnitine (C14),	-	6		2
Very Long-Chain Acyl-CoA Dehydrogenase Deficiency (VLCAD)	Tetradecenoylcarnitine (C14:1)	5	8	Very Long-Chain Acyl-CoA Dehydrogenase (VLCAD) Deficiency	2

Screened Disorders	Analytes	Borderline	Referrals	Number Confirmed with Disease (Preliminary)	
Short-Chain Acyl-CoA Dehydrogenase Deficiency (SCAD)	Butyrylcarnitine (C4)	70	19	Short-Chain Acyl-CoA Dehydrogenase (SCAD) Deficiency	6
Medium/Short-Chain Hydroxyl CoA Dehydrogenase (M/SCHAD) Deficiency	Hydroxybutyrylcarnitine (C4OH), Hydroxyhexanoylcarnitine (C6OH)	44	2	Medium/Short-Chain Hydroxyl CoA Dehydrogenase (M/SCHAD) Deficiency	0
	ic Acid Disorders				
- Mitochondrial Acetoacetyl-CoA Thiolase Deficiency/2-Methyl-3- Hydroxybutyryl-CoA-Dehydrogenase (MHBD) Deficiency	Tiglylcarnitine (C5:1)	18	0	Mitochondrial Acetoacetyl-CoA Thiolase Deficiency/Beta-Ketothiolase (BKT) Deficiency	0
				2-Methyl-3-Hydroxybutyryl-CoA-Dehydrogenase (MHBD) Deficiency	0
Glutaric Aciduria Type I (GA I)	Glutarylcarnitine (C5DC)	105	8	Glutaryl-CoA Dehydrogenase Deficiency/Glutaric Aciduria Type I (GA I)	1
Isovaleric Acidemia (IVA)/2-Methylbutyryl-CoA Dehydrogenase Deficiency (2MBCD)	Isovalerylcarnitine (C5)	390	3	Isovaleryl CoA Dehydrogenase Deficiency/Isovaleric Acidemia (IVA)	2
				2-Methylbutyrylglycinuria (2MBG)/2-Methylbutyryl-CoA Dehydrogenase (2MBCD) Deficiency/Short/Branched Chain Acyl-CoA Dehydrogenase (SBCAD) Deficiency	0
3-Methylcrotonyl-CoA Carboxylase (3MCC) Deficiency/2-Methyl-3- Hydroxybutyryl-CoA Dehydrogenase (MHBD) Deficiency/3- Methylglutaconic Aciduria (3MGA)	Hydroxyisovalerylcarnitine (C5OH)	46		3-Methylcrotonyl-CoA Carboxylase (3MCC) Deficiency	8
			57	3-Hydroxy-3-Methylglutaryl-CoA Lyase (HMG) Deficiency	0
				2-Methyl-3-Hydroxybutyryl-CoA Dehydrogenase (MHBD) Deficiency/2-Methyl-3- Hydroxybutric Acidemia (2M3HBA)	0
				3-Methylglutaconic Aciduria (3MGA)	0
Malonyl-CoA Decarboxylase Deficiency (MA)	Malonylcarnitine (C3DC)	4	1	Malonyl-CoA Decarboxylase Deficiency/Malonic Aciduria (MA)	1
Propionyl-CoA Carboxylase Deficiency (PA)/Methylmalonyl-CoA Mutase Deficiency (MMA)				Propionyl-CoA Carboxylase Deficiency (PA)	2
	Propionylcarnitine (C3), Methylmalonylcarnitine (C4DC)	272		Methylmalonyl-CoA Mutase Deficiency (MMA)	0
			28	Cobalamin A/B Deficiency	0
				Cobalamin C/D/F Deficiency	2
				Multiple Carboxylase Deficiency (MCD)	0
Isobutyryl-CoA Dehydrogenase Deficiency (IBCD)	Butyrylcarnitine (C4)	70	19	IsobutyryI-CoA Dehydrogenase (IBCD) Deficiency	2
	Cycle Disorders	70	19	Isobaty yi-cox Denyarogenase (IBCD) Denciency	2
	·	T	[	Argininosuccinic Aciduria (ASA)	2
Argininosuccinic Aciduria (ASA)/Citrullinemia (CIT)	Citrulline	45	6	Citrullinemia Type I (CTLN1)	0
Argininemia (ARG)	Arginine	17	0	Argininemia (ARG)	0
	Il Storage Disorders		-		-
Krabbe Disease	Galactocerebrosidase	0	9	Infantile-Onset Krabbe Disease	2
				Krabbe Disease Possible Late-Onset	0
Mucopolysaccharidosis Type I (MPS I)	Alpha-L-iduronidase	0	9	Mucopolysaccharidosis Type I (MPS I)	1
Pompe Disease		0	10	Infantile-Onset Pompe Disease	0
	Alpha-glucosidase	0	10	Pompe Disease Possible Late-Onset	5
Other G	enetic Conditions				
X-linked Adrenoleukodystrophy (X-ALD)	C26:0 Lysophosphatidylcholine (C26:0 LPC)	17		Male with X-linked Adrenoleukodystrophy (X-ALD)	6
				Female Carrier of X-ALD	5
				Zellweger Syndrome	1
				Other Peroxisomal Biogenesis Disorder	0
Biotinidase Deficiency (BTD)	Biotinidase	14	2	Biotinidase Deficiency (BTD)	2
				Cystic Fibrosis (CF)	22
Cystic Fibrosis (CF)	Immunoreactive Trypsinogen	N/A	111	· · · · ·	
Cystic Fibrosis (CF) Spinal Muscular Atrophy (SMA)	SMN1 Gene, Exon 7 Deletion	N/A	13	Spinal Muscular Atrophy (SMA)	13
Cystic Fibrosis (CF) Spinal Muscular Atrophy (SMA) Guanidinoacetate Methyltransferase Deficiency (GAMT)	SMN1 Gene, Exon 7 Deletion Guanidinoacetate	N/A 38	13 1	Spinal Muscular Atrophy (SMA) Guanidinoacetate Methyltransferase Deficiency (GAMT)	0
Cystic Fibrosis (CF) Spinal Muscular Atrophy (SMA)	SMN1 Gene, Exon 7 Deletion	N/A	13	Spinal Muscular Atrophy (SMA) Guanidinoacetate Methyltransferase Deficiency (GAMT) Galactosemia (GALT)	0 2
Cystic Fibrosis (CF) Spinal Muscular Atrophy (SMA) Guanidinoacetate Methyltransferase Deficiency (GAMT) Galactosemia (GALT)	SMN1 Gene, Exon 7 Deletion Guanidinoacetate Galactose Transferase	N/A 38 8	13 1 3	Spinal Muscular Atrophy (SMA) Guanidinoacetate Methyltransferase Deficiency (GAMT) Galactosemia (GALT) Classic SCID	0 2 5
Cystic Fibrosis (CF) Spinal Muscular Atrophy (SMA) Guanidinoacetate Methyltransferase Deficiency (GAMT)	SMN1 Gene, Exon 7 Deletion Guanidinoacetate	N/A 38	13 1	Spinal Muscular Atrophy (SMA) Guanidinoacetate Methyltransferase Deficiency (GAMT) Galactosemia (GALT)	0 2

Data is based on infants born in 2024 whose specimens were received before 3/1/25.

Borderline result counts are provided per specimen. An infant with multiple specimens with borderline results for a given condition may be counted more than once. Screen-positive referrals, confirmed cases and hemoglobin trait counts are provided per infant.