

Supplementary Materials:

Table S1: Years from Addition to RUSP to Full Population Screening (as of December 2022)						
Condition (Month/Year Added to RUSP)	SCID (May 2010)	CCHD (September 2011)	Pompe (March 2015)	MPS I (February 2016)	X-ALD (February 2016)	SMA (July 2018)
AVERAGE	4.3	2.7	4.0*	3.2*	3.5*	2.1*
Alabama	8.3	1.8	PI	PI	PI	3.6
Alaska	6.2	2.3	NS	NS	NS	4.0
Arizona	7.3	3.8	PI	PI	4.9	3.5
Arkansas	5.0	1.9	NS	NS	6.0	1.7
California	0.3	1.8	3.4	2.5	0.6	1.9
Colorado	1.8	4.3	7.3	6.3	NS	1.5
Connecticut	1.3	1.3	5.8	4.9	0.4	1.5
Delaware	2.2	1.7	4.8	3.9	3.9	1.5
District of Columbia	3.8	4.0	3.1	2.2	2.2	PI
Florida	2.1	3.1	4.9	4.0	2.3	1.8
Georgia	6.1	2.8	6.5	5.6	4.3	1.1
Guam	3.9	1.8	NS	NS	NS	NS
Hawaii	4.8	3.8	PI	PI	NS	NS
Idaho	5.7	6.8	6.9	6.0	6.0	3.6
Illinois	4.1	2.0	0.3	-0.7	3.3	1.9
Indiana	8.2	0.3	5.3	4.4	5.4	0.0
Iowa	4.2	1.8	PI	PI	NS	3.2
Kansas	7.5	6.4	5.8	4.9	PI	1.6
Kentucky	5.8	2.3	0.9	0.0	2.4	1.1
Louisiana	8.6	1.9	6.8	5.9	NS	3.5
Maine	4.3	1.8	6.1	5.2	5.2	2.8
Maryland	5.8	2.0	4.3	3.3	PI	0.9
Massachusetts	-1.2	3.3	2.8	1.9	1.9	-0.5
Michigan	1.3	2.6	2.4	1.5	3.7	1.7
Minnesota	2.7	1.9	2.4	1.5	1.0	-0.3
Mississippi	1.6	3.2	1.3	NS	NS	1.3
Missouri	6.7	2.3	-2.2	-3.1	5.8	0.5
Montana	5.2	2.8	PI	PI	NS	2.7
Nebraska	4.3	2.0	3.3	2.4	2.4	2.3
Nevada	7.7	3.8	NS	NS	NS	NS
New Hampshire	5.2	0.9	5.4	4.5	4.5	1.4
New Jersey	4.1	0.0	4.3	3.4	6.8	3.5
New Mexico	4.3	2.8	6.2	5.3	PI	3.9
New York	0.3	2.3	-0.4	2.7	-2.9	0.3
North Carolina	7.5	2.8	PI	PI	6.0	2.8
North Dakota	6.2	1.9	PI	NS	NS	3.2
Ohio	3.2	3.1	2.7	1.8	6.7	4.3
Oklahoma	4.8	1.8	6.0	5.1	5.1	2.7
Oregon	4.0	1.8	3.6	2.7	NS	3.9
Pennsylvania	3.2	3.0	0.9	0.9	1.2	0.7
Puerto Rico	5.2	3.2	NS	NS	NS	NS
Rhode Island	4.3	3.8	2.8	1.9	1.9	2.0
South Carolina	4.8	1.8	5.9	5.0	PI	4.2
South Dakota	5.3	1.8	7.5	PI	PI	3.2
Tennessee	5.7	1.7	2.3	1.4	2.3	1.6
Texas	2.6	2.0	PI	PI	3.5	2.9
Utah	3.2	3.1	PI	PI	4.6	-0.5
Vermont	6.2	4.8	4.2	3.3	3.3	0.8
Virginia	5.1	3.3	3.8	2.9	6.1	3.7
Washington	3.7	3.8	4.6	3.7	2.1	2.1
West Virginia	3.8	0.8	NS	NS	PI	1.3
Wisconsin	-1.8	2.5	6.8	NS	PI	1.3
Wyoming	1.8	6.3	NS	NS	NS	1.5
MINIMUM	-1.8	0	-2.2	-3.1	-2.9	-0.5
MAXIMUM	8.6	6.8	7.5*	6.3*	6.8*	4.3*

*Of states offering Universal Screening as of December 2022 | NS = Not Screened | PI = Pursuing Implementation

Table S2: Number of states that implemented population screening within 3 years of a conditions' addition to the RUSP

Condition	Number of States	States
SCID	13	California, Colorado, Connecticut, Delaware, Florida, Massachusetts, Michigan, Minnesota, Mississippi, New York, Texas, Wisconsin, Wyoming
CCHD	35	Alabama, Alaska, Arkansas, California, Connecticut, Delaware, Georgia, Guam, Illinois, Indiana, Iowa, Kentucky, Louisiana, Maine, Maryland, Michigan, Minnesota, Missouri, Montana, Nebraska, New Hampshire, New Jersey, New Mexico, New York, North Carolina, North Dakota, Oklahoma, Oregon, Pennsylvania, South Carolina, South Dakota, Tennessee, Texas, West Virginia, Wisconsin
Pompe	12	Illinois, Kentucky, Massachusetts, Michigan, Minnesota, Mississippi, Missouri, New York, Ohio, Pennsylvania, Rhode Island, Tennessee
MPS I	16	California, District of Columbia, Illinois, Kentucky, Massachusetts, Michigan, Minnesota, Missouri, Nebraska, New York, Ohio, Oregon, Pennsylvania, Rhode Island, Tennessee, Virginia
X-ALD	13	California, Connecticut, District of Columbia, Florida, Kentucky, Massachusetts, Minnesota, Nebraska, New York, Pennsylvania, Rhode Island, Tennessee, Washington
SMA	34	Arkansas, California, Colorado, Connecticut, Delaware, Florida, Georgia, Illinois, Indiana, Kansas, Kentucky, Maine, Maryland, Massachusetts, Michigan, Minnesota, Mississippi, Missouri, Montana, Nebraska, New Hampshire, New York, North Carolina, Oklahoma, Pennsylvania, Rhode Island, Tennessee, Texas, Utah, Vermont, Washington, West Virginia, Wisconsin, Wyoming

Table S3: Severe Combined Immunodeficiency Newborn Screening Implementation

Dates (N = 53)											
						NM					
						NE					
						RI					
						ME	SD				
						IA	PR	VT			
						NJ	NH	ND			
TX						IL	MT	AK			
DE						OR	VA	GA			
FL						UT	GU	AR	MD	NC	LA
WY						PA	WV	SC	KY	KS	AL
NY				MI	CO	OH	DC	HI	TN	AZ	IN
WI	MA	CA	CT	MS	MN	WA	OK	ID	MO	NV	
2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	
RUSP											

Table S4: Critical Congenital Heart Disease Newborn Screening

Implementation Dates (N = 53)	
TX	
NE	
MD	
IL	VA

		ND	PR				
		MN	MS				
		LA	UT				
		AR	OH				
		SD	FL				
		OK	PA				
		ME	NC				
		IA	NM				
		CA	MT				
		SC	GA	DC			
		OR	MI	WA			
		GU	WI	RI			
		AL	NY	NV			
	NH	TN	MO	HI			
	WV	DE	KY	AZ	VT		KS
NJ	IN	CT	AK	MA	CO	WY	ID
2011	2012	2013	2014	2015	2016	2017	2018
RUSP							

Table S5: Pompe Newborn Screening Implementation Dates (as of December 2022; n = 37)

2000-2001														
								GA						
								NM						
								ME						
								OR						
								CA	WA	OK	SD			
								OH	NE	NJ	SC	CO		
								MS	MN	DC	VT	NH	KS	ID
								PA	MI	RI	VA	IN	FL	WI
MO	NY	IL	KY	TN	MA	MN	DE	CT	LA					
2013	2014	2015	2016	2017	2018	2019	2020	2021	2022					
RUSP														

Table S6: Mucopolysaccharidosis, Type I Newborn Screening Implementation Dates (as of December 2022, n = 34)

									GA
						NY	NM		
							OR	ME	
				OH	CA	WA	OK		
				MN	NE	NJ	SC		
				MI	DC	MD	NH	KS	CO
				TN	RI	VT	IN	FL	ID
MO	IL	KY	PA	MA	VA	DE	CT	LA	
2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
RUSP									

Table S7: X-linked Adrenoleukodystrophy Newborn Screening Implementation Dates (as of December 2022, n = 30)

	NE				
	KY				
	TN				NJ
	FL			MO	AR
	DC	MI	UT	IN	OH

					WA	TX	NH	ME	VA
			CA	PA	RI	IL	GA	OK	NC
NY			CT	MN	MA	VT	DE	AZ	ID
2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
RUSP									

Table S8: Spinal Muscular Atrophy Newborn Screening Implementation Dates (as of December 2022, n = 48)				
			NE	
			WA	
			RI	
			IL	OH
	NH	CA		SC
	WV	FL		AK
	MS	MI	SD	OR
	WI	AR	ND	NM
	KY	TN	IA	VA
NY	GA	KS	TX	ID
IN	MD	WY	OK	AL
MN	VT	DE	NC	NJ
UT	PA	CT	ME	LA
MA	MO	CO	MT	AZ
2018	2019	2020	2021	2022
RUSP				