

Table S4: Clinical detection rate estimates when three reported cases are assumed to determine pathogenicity

mucopolidiosis III gamma	0.000825854	0.918775848	0.940973005	0.976253854	AR
cystinosis	0.003213236	0.986112403	0.994610496	0.994610496	AR
USH1C-related disorders	0.001238128	0.984897778	0.987987526	0.988911562	AR
Bardet-Biedl syndrome, BBS1-related	0.005366863	0.994017167	0.996999491	0.997338942	AR
methylmalonic aciduria and homocystinuria, cblC type	0.005109334	0.9868441	0.99251869	0.994947353	AR
MYO7A-related disorders	0.004913812	0.99028436	0.991007328	0.991468491	AR
Sandhoff disease	0.003027014	0.891414169	0.941852266	0.967288283	AR
calpainopathy	0.005494707	0.991580744	0.992730011	0.993702971	AR
citrullinemia type 1	0.002025232	0.988918901	0.991187791	0.992869201	AR
Herlitz junctional epidermolysis bullosa, LAMC2-related	0.000774403	0.958513354	0.966516104	0.972751375	AR
GLDC-related glycine encephalopathy	0.001550012	0.983351283	0.986042383	0.988638633	AR
TGM1-related autosomal recessive congenital ichthyosis	0.003392383	0.978785056	0.985931367	0.9879366	AR
Pompe disease	0.011149681	0.991230702	0.992776217	0.993624492	AR
pycnodysostosis	0.000520649	0.954134315	0.983670856	0.987032738	AR
ATP7A-related disorders	4.19E-05	0.5	0.5	0.5	X-linked
MKS1-related disorders	0.001919276	0.990192331	0.992930947	0.994522768	AR
HMG-CoA lyase deficiency	0.000682821	0.877831282	0.877831282	0.877831282	AR
autosomal recessive osteopetrosis type 1	0.001821932	0.958835151	0.97716447	0.983274243	AR
dystrophinopathy (including Duchenne/Becker muscular dystrophy)	0.001121475	0.984745701	0.984745701	0.984745701	X-linked
ABCC8-related hyperinsulinism	0.002113378	0.986292993	0.987815994	0.987815994	AR
FKTN-related disorders	0.00120112	0.978155047	0.984095236	0.988432899	AR
X-linked juvenile retinoschisis	0.000121159	0.971084337	0.971084337	0.971084337	X-linked
biotinidase deficiency	0.004250571	0.994413788	0.994890176	0.995718183	AR
phenylalanine hydroxylase deficiency	0.019605948	0.996215078	0.996562259	0.99629472	AR
primary carnitine deficiency	0.004346014	0.989641109	0.992825986	0.993787085	AR
Northern epilepsy	0.000221691	0.953613281	0.953613281	0.97265625	AR
Canavan disease	0.001657308	0.974583656	0.986482128	0.992760734	AR
CLNS-related neuronal ceroid lipofuscinosis	0.000462236	0.979245841	0.981430489	0.98689211	AR
ataxia-telangiectasia	0.00317273	0.974115307	0.971710152	0.979878141	AR
isovaleric acidemia	0.001163564	0.912493563	0.950096145	0.964440802	AR
lipoid congenital adrenal hyperplasia	0.00077269	0.958863817	0.97819912	0.98546608	AR
Segawa syndrome	0.000669426	0.978944974	0.981430637	0.986889347	AR
methylmalonic acidemia, cblB type	0.00124321	0.981199272	0.990083132	0.992680407	AR
short chain acyl-CoA dehydrogenase deficiency	0.00547958	0.978050189	0.986691153	0.990683807	AR
PCCA-related propionic acidemia	0.001385767	0.965719195	0.973178368	0.97721772	AR
Krabbe disease	0.003769327	0.98693271	0.989920793	0.990964393	AR
congenital disorder of glycosylation type Ia	0.010637004	0.990220257	0.994084936	0.996720234	AR
congenital disorder of glycosylation type Ic	0.002506459	0.888725178	0.930678671	0.948962165	AR
congenital disorder of glycosylation type Ib	0.000705713	0.963343838	0.983745231	0.983745231	AR
pyruvate carboxylase deficiency	0.00208462	0.960703353	0.960703353	0.972663202	AR
methylmalonic acidemia, cblA type	0.00157035	0.755757392	0.844860784	0.931772694	AR
lysosomal acid lipase deficiency	0.002782208	0.975410295	0.988129554	0.993183649	AR
Nijmegen breakage syndrome	0.002101899	0.988480093	0.990261358	0.991857075	AR
ataxia with vitamin E deficiency	0.000935746	0.942241501	0.9654392	0.968315338	AR
PKHD1-related autosomal recessive polycystic kidney disease	0.00806609	0.981805607	0.985761433	0.987998707	AR
LAMA2-related muscular dystrophy	0.004340333	0.960097421	0.971511168	0.979602149	AR
primary hyperoxaluria type 3	0.005121511	0.985550698	0.98879981	0.991599857	AR
primary hyperoxaluria type 2	0.001398061	0.9886333	0.990079997	0.992559998	AR
primary hyperoxaluria type 1	0.003516707	0.992770136	0.994322113	0.995388502	AR
Gaucher disease	0.007484444	0.998170601	0.998475501	0.998475501	AR
Bloom syndrome	0.00276864	0.899458728	0.929639007	0.947343839	AR
Salla disease	0.00183288	0.961511904	0.979875708	0.991110475	AR
Joubert syndrome 2	0.000506866	0.986299904	0.989724928	0.989724928	AR
mucopolysaccharidosis type IIIB	0.00197876	0.963771558	0.979887646	0.986291498	AR
mucopolysaccharidosis type IIIC	0.001020071	0.948068772	0.965515299	0.973245843	AR
TPP1-related neuronal ceroid lipofuscinosis	0.002419113	0.99431916	0.99431916	0.99586848	AR
mucopolysaccharidosis type IIIA	0.003227229	0.992318061	0.993626657	0.995153351	AR
peroxisome biogenesis disorder type 3	0.001148436	0.988913833	0.990465896	0.992904853	AR
PCDH15-related disorders	0.001645422	0.983459533	0.984330084	0.984330084	AR
peroxisome biogenesis disorder type 6	0.000598462	0.965782743	0.973064676	0.977449496	AR
peroxisome biogenesis disorder type 4	0.000949901	0.982058736	0.982058736	0.985191338	AR
peroxisome biogenesis disorder type 5	0.000275476	0.984682888	0.984682888	0.988512166	AR
inclusion body myopathy 2	0.001667789	0.986853379	0.99020515	0.992103802	AR
cerebrotendinous xanthomatosis	0.002986308	0.90518436	0.939074175	0.962318121	AR