疾病名稱	帶因率	偵測率	發生率
01.胺基酸/有機酸代謝異常			
藥物型苯酮尿症 (Phenylketonuria, PKU) 6-pyruvoyl-tetrahydropterin Synthase Deficiency (<i>PTS</i>) NM_000317:1-6 Inheritance: Autosomal Recessive	Eastern Asia: 1 in 350 Middle East: 1 in 45 Other Populations: < 1 in 500	Eastern Asia: 99% Middle East: 99% Other Populations: 99%	Eastern Asia: < 1 in 35,000 Middle East: < 1 in 4,400 Other Populations: < 1 in 50,000
苯酮尿症-苯丙胺酸去氫酶缺乏症 Phenylalanine Hydroxylase Deficiency (<i>PAH</i>) NM_000277:1-13 Inheritance: Autosomal Recessive	African American: 1 in 160 Ashkenazi Jewish: 1 in 220 Finland: 1 in 200 Middle East: 1 in 26 Native American: 1 in 220 Other Populations: 1 in 51	African American: 99% Ashkenazi Jewish: 99% Finland: 99% Middle East: 99% Native American: 99% Other Populations: 99%	African American: < 1 in 16,000 Ashkenazi Jewish: < 1 in 22,000 Finland: < 1 in 20,000 Middle East: < 1 in 2,500 Native American: < 1 in 22,000 Other Populations: < 1 in 5,000
非酮性高甘胺酸血症 (Nonketotic hyperglycinemia, NKH) AMT-related Glycine Encephalopathy (<i>AMT</i>) NM_000481:1-9 Inheritance: Autosomal Recessive	Finland: 1 in 120 Other Populations: 1 in 220	Finland: 99% Other Populations: 99%	Finland: < 1 in 12,000 Other Populations: < 1 in 22,000
生物素酶缺乏症 (BTD deficiency) Biotinidase Deficiency (<i>BTD</i>) NM_000060:1-4 Inheritance: Autosomal Recessive	African American: 1 in 310 Ashkenazi Jewish: 1 in 440 Eastern Asia: 1 in 460 Hispanic: 1 in 160 Northwestern Europe: 1 in 130 Southeast Asia: 1 in 160 Other Populations: 1 in 160	African American: 99% Ashkenazi Jewish: 99% Eastern Asia: 99% Hispanic: 99% Northwestern Europe: 99% Southeast Asia: 99% Other Populations: 99%	African American: < 1 in 38,000 Ashkenazi Jewish: < 1 in 60,000 Eastern Asia: < 1 in 67,000 Hispanic: < 1 in 17,000 Northwestern Europe: < 1 in 13,000 Southeast Asia: < 1 in 18,000 Other Populations: < 1 in 17,000
非酮性高甘胺酸血症(Nonketotic hyperglycinemia)/甘氨酸腦病			
GLDC-related Glycine Encephalopathy (<i>GLDC</i>) NM_000170:1-25 Inheritance: Autosomal Recessive	Finland: 1 in 120 Other Populations: 1 in 160	Finland: 94% Other Populations: 94%	Finland: < 1 in 2,100 Other Populations: < 1 in 2,800
戊二酸血症 第一型 Glutaric Acidemia, GCDH-related (<i>GCDH</i>) NM_000159:2-12 Inheritance: Autosomal Recessive	Eastern Asia: 1 in 140 French Canadian/Cajun: 1 in 160 Middle East: 1 in 66 Northwestern Europe: 1 in 160 Southern Europe: 1 in 140 Other Populations: 1 in 160	Eastern Asia: 99% French Canadian/Cajun: 99% Middle East: 99% Northwestern Europe: 99% Southern Europe: 99% Other Populations: 99%	Eastern Asia: < 1 in 13,000 French Canadian/Cajun: < 1 in 16,000 Middle East: < 1 in 6,500 Northwestern Europe: < 1 in 16,000 Southern Europe: < 1 in 14,000 Other Populations: < 1 in 16,000

3羥基3甲基戊二酸尿症 (HMG尿症、白胺酸代謝異常) HMG-CoA Lyase Deficiency (<i>HMGCL</i>) NM_000191:1-9 Inheritance: Autosomal Recessive	Middle East: 1 in 160 Southern Europe: 1 in 160 Other Populations: < 1 in 500	Middle East: 99% Southern Europe: 99% Other Populations: 99%	Middle East: < 1 in 10,000 Southern Europe: < 1 in 10,000 Other Populations: < 1 in 33,000
多發性羧化酶缺乏症 (Multiple carboxylase deficiency)-羧化全酶合成酶缺乏症 Holocarboxylase Synthetase Deficiency (<i>HLCS</i>) NM_000411:4-12 Inheritance: Autosomal Recessive	Eastern Asia: 1 in 160 Other Populations: 1 in 150	Eastern Asia: 99% Other Populations: 99%	Eastern Asia: < 1 in 16,000 Other Populations: < 1 in 15,000
高胱胺酸血症-胱硫醚β合成酶缺乏型 Homocystinuria Caused by Cystathionine Beta-synthase Deficiency (<i>CBS</i>) NM_000071:3-17 Inheritance: Autosomal Recessive	Worldwide: 1 in 250	Worldwide: 99%	Worldwide: < 1 in 25,000
異戊酸血症 (IVA) Isovaleric Acidemia (IVD) NM_002225:1-12 Inheritance: Autosomal Recessive	Worldwide: 1 in 250	Worldwide: 99%	Worldwide: < 1 in 25,000
甲基丙二酸血症(MMA) MUT-related Methylmalonic Acidemia (<i>MUT</i>) NM_000255:2-13 Inheritance: Autosomal Recessive	Eastern Asia: 1 in 110 French Canadian/Cajun: 1 in 380 Hispanic: 1 in 170 Middle East: 1 in 53 Northwestern Europe: 1 in 260 South Asia: 1 in 72 Southeast Asia: 1 in 54 Other Populations: 1 in 180	Eastern Asia: 99% French Canadian/Cajun: 99% Hispanic: 99% Middle East: 99% Northwestern Europe: 99% South Asia: 99% Southeast Asia: 99% Other Populations: 99%	Eastern Asia: < 1 in 11,000 French Canadian/Cajun: < 1 in 38,000 Hispanic: < 1 in 17,000 Middle East: < 1 in 5,200 Northwestern Europe: < 1 in 26,000 South Asia: < 1 in 7,100 Southeast Asia: < 1 in 5,300 Other Populations: < 1 in 18,000
甲基丙二酸血症 (MMA) cblA型 Methylmalonic Acidemia, cblA Type (<i>MMAA</i>) NM_172250:2-7 Inheritance: Autosomal Recessive	French Canadian/Cajun: 1 in 470 Other Populations: < 1 in 500	French Canadian/Cajun: 99% Other Populations: 99%	French Canadian/Cajun: < 1 in 47,000 Other Populations: < 1 in 50,000
甲基丙二酸血症 (MMA) cblB型 Methylmalonic Acidemia, cblB Type (MMAB) NM_052845:1-9 Inheritance: Autosomal Recessive	French Canadian/Cajun: < 1 in 660 Northwestern Europe: 1 in 480 Other Populations: < 1 in 500	French Canadian/Cajun: 99% Northwestern Europe: 99% Other Populations: 99%	French Canadian/Cajun: < 1 in 66,000 Northwestern Europe: < 1 in 48,000 Other Populations: < 1 in 50,000
甲基丙二酸血症 (MMA) cblC型 (伴隨高胱胺酸尿症) Methylmalonic Aciduria and Homocystinuria, cblC Type (<i>MMACHC</i>) NM_015506:1-4 Inheritance: Autosomal Recessive	Eastern Asia: 1 in 330 French Canadian/Cajun: 1 in 230 Other Populations: 1 in 160	Eastern Asia: 99% French Canadian/Cajun: 99% Other Populations: 99%	Eastern Asia: < 1 in 33,000 French Canadian/Cajun: < 1 in 23,000 Other Populations: < 1 in 16,000

楓糖尿症 (第一B型) Maple Syrup Urine Disease Type 1B (BCKDHB)	Ashkenazi Jewish: 1 in 97	Ashkenazi Jewish: 99%	Ashkenazi Jewish: < 1 in 9,600
NM_183050:1-10	Other Populations: 1 in 250	Other Populations: 99%	Other Populations: < 1 in 25,000
Inheritance: Autosomal Recessive		_	
	Eastern Asia: < 1 in 500	Eastern Asia: 96%	Eastern Asia: < 1 in 13,000
楓糖尿症(第二型)	French Canadian/Cajun: 1 in 480	French Canadian/Cajun: 95%	French Canadian/Cajun: < 1 in 9,600
Maple Syrup Urine Disease Type II (<i>DBT</i>)	Middle East: 1 in 120	Middle East: 96%	Middle East: < 1 in 3,300
NM_001918:1-11	Southeast Asia: 1 in 280	Southeast Asia: 96%	Southeast Asia: < 1 in 7,600
Inheritance: Autosomal Recessive	Southern Europe: 1 in 410	Southern Europe: 96%	Southern Europe: < 1 in 11,000
	Other Populations: 1 in 480	Other Populations: 96%	Other Populations: < 1 in 13,000
	African American: 1 in 260	African American: 99%	African American: < 1 in 26,000
	Ashkenazi Jewish: 1 in 320	Ashkenazi Jewish: 99%	Ashkenazi Jewish: < 1 in 32,000
	Eastern Asia: 1 in 490	Eastern Asia: 99%	Eastern Asia: < 1 in 49,000
	Finland: 1 in 320	Finland: 99%	Finland: < 1 in 32,000
楓糖尿症 (第一A型)	French Canadian/Cajun: 1 in 290	French Canadian/Cajun: 99%	French Canadian/Cajun: < 1 in 29,000
Maple Syrup Urine Disease Type Ia (BCKDHA)	Hispanic: 1 in 150	Hispanic: 99%	Hispanic: < 1 in 14,000
NM_000709:1-9	Middle East: 1 in 110	Middle East: 99%	Middle East: < 1 in 11,000
Inheritance: Autosomal Recessive	Native American: 1 in 320	Native American: 99%	Native American: < 1 in 32,000
	Northwestern Europe: 1 in 420	Northwestern Europe: 99%	Northwestern Europe: < 1 in 42,000
	South Asia: 1 in 95	South Asia: 99%	South Asia: < 1 in 9,400
	Southeast Asia: 1 in 190	Southeast Asia: 99%	Southeast Asia: < 1 in 19,000
	Southern Europe: 1 in 160	Southern Europe: 99%	Southern Europe: < 1 in 16,000
丙酸血症 (PA)_PCCA變異造成			
PCCA-related Propionic Acidemia (<i>PCCA</i>)	Middle East: 1 in 91	Middle East: 95%	Middle East: < 1 in 1,700
NM 000282:1-24	Other Populations: 1 in 220	Other Populations: 95%	Other Populations: < 1 in 4,200
Inheritance: Autosomal Recessive	1	1	1
丙酸血症 (PA)_PCCB變異造成			
PCCB-related Propionic Acidemia (<i>PCCB</i>)	Eastern Asia: 1 in 66	Eastern Asia: 1 in 66	Eastern Asia: < 1 in 6,500
NM 000532:1-15	Middle East: 1 in 100	Middle East: 1 in 100	Middle East: < 1 in 10,000
Inheritance: Autosomal Recessive	Other Populations: 1 in 220	Other Populations: 1 in 220	Other Populations: < 1 in 22,000
遺傳性酪胺酸血症第一型			
Tyrosinemia Type I (<i>FAH</i>)	Finland: 1 in 120	Finland: 99%	Finland: < 1 in 12,000
NM 000137:1-14	French Canadian/Cajun: 1 in 64	French Canadian/Cajun: 99%	French Canadian/Cajun: < 1 in 6,300
Inheritance: Autosomal Recessive	Other Populations: 1 in 160	Other Populations: 99%	Other Populations: < 1 in 16,000
酪胺酸血症第二型 (Richner-Hanhart 症候群)			
Tyrosinemia Type II (TAT)			
NM_000353:2-12	Worldwide: 1 in 250	Worldwide: 99%	Worldwide: < 1 in 25,000
Inheritance: Autosomal Recessive			
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02.尿素循環代謝異常			
精胺酸血症 Argininemia (<i>ARG1</i>) NM_000045:1-8 Inheritance: Autosomal Recessive	Worldwide: < 1 in 500	Worldwide: 97%	Worldwide: < 1 in 17,000
精胺丁二酸酵素缺乏症 Argininosuccinic Aciduria (<i>ASL</i>) NM_001024943:1-16 Inheritance: Autosomal Recessive	Finland: 1 in 190 Hispanic: 1 in 290 Other Populations: 1 in 130	Finland: 99% Hispanic: 99% Other Populations: 99%	Finland: < 1 in 19,000 Hispanic: < 1 in 29,000 Other Populations: < 1 in 13,000
瓜胺酸血症第一型 Citrullinemia Type 1 (<i>ASS1</i>) NM_000050:3-16 Inheritance: Autosomal Recessive	Eastern Asia: 1 in 97 Northwestern Europe: 1 in 140 Other Populations: 1 in 120	Eastern Asia: 86% Northwestern Europe: 99% Other Populations: 99%	Eastern Asia: < 1 in 700 Northwestern Europe: < 1 in 14,000 Other Populations: < 1 in 12,000
鳥胺酸氨甲醯基轉移酶缺乏症(OTC) Ornithine Transcarbamylase Deficiency (<i>OTC</i>) NM_000531:1-10 Inheritance: X-linked Recessive	Finland: 1 in 31,000 Other Populations: 1 in 34,000	Finland: 97% Other Populations: 97%	Finland: < 1 in 1,000,000 Other Populations: < 1 in 1,000,000
03.其他代謝異常			
緬克斯症候群 (Menkes disease) ATP7A-related Disorders (<i>ATP7A</i>) NM_000052:2-23 Inheritance: X-linked Recessive	Eastern Asia: 1 in 180,000 Northwestern Europe: 1 in 150,000 Southern Europe: 1 in 150,000 Other Populations: 1 in 150,000	Eastern Asia: 92% Northwestern Europe: 96% Southern Europe: 96% Other Populations: 92%	Eastern Asia: < 1 in 1,000,000 Northwestern Europe: < 1 in 1,000,000 Southern Europe: < 1 in 1,000,000 Other Populations: < 1 in 1,000,000
α-甘露糖苷儲積症 Alpha-mannosidosis (<i>MAN2B1</i>) NM_000528:1-23 Inheritance: Autosomal Recessive	Worldwide: 1 in 350	Worldwide: 99%	Worldwide: < 1 in 35,000
天冬氨醯葡萄糖胺尿症 Aspartylglucosaminuria (<i>AGA</i>) NM_000027:1-9 Inheritance: Autosomal Recessive	Finland: 1 in 71 Other Populations: < 1 in 500		Finland: < 1 in 7,000 Other Populations: < 1 in 50,000
肉鹼棕櫚醢基轉移酶缺乏症第1型 Carbamoylphosphate Synthetase I Deficiency (<i>CPS1</i>) NM_001875:1-38 Inheritance: Autosomal Recessive	Eastern Asia: 1 in 450 Finland: 1 in 370 Other Populations: < 1 in 570	Eastern Asia: 99% Finland: 99% Other Populations: 99%	Eastern Asia: < 1 in 45,000 Finland: < 1 in 37,000 Other Populations: < 1 in 57,000

肉鹼棕櫚醢基轉移酶缺乏症第1A型 Carnitine Palmitoyltransferase IA Deficiency (<i>CPT1A</i>) NM_001876:2-19 Inheritance: Autosomal Recessive	Worldwide: < 1 in 500	Worldwide: 99%	Worldwide: < 1 in 50,000
肉鹼棕櫚醢基轉移酶缺乏症第2型 Carnitine Palmitoyltransferase II Deficiency (<i>CPT2</i>) NM_000098:1-5 Inheritance: Autosomal Recessive	Ashkenazi Jewish: 1 in 47 Eastern Asia: 1 in 320 Middle East: 1 in 110 Northwestern Europe: 1 in 250 Southern Europe: 1 in 200 Other Populations: 1 in 180	Ashkenazi Jewish: 99% Eastern Asia: 99% Middle East: 99% Northwestern Europe: 99% Southern Europe: 99% Other Populations: 99%	Ashkenazi Jewish: < 1 in 4,600 Eastern Asia: < 1 in 31,000 Middle East: < 1 in 11,000 Northwestern Europe: < 1 in 25,000 Southern Europe: < 1 in 20,000 Other Populations: < 1 in 18,000
腦腱性黃瘤症 Cerebrotendinous Xanthomatosis (<i>CYP27A1</i>) NM_000784:1-9 Inheritance: Autosomal Recessive	Worldwide: 1 in 110	Worldwide: 99%	Worldwide: < 1 in 11,000
先天性醣基化障礙(CDG)1a型 Congenital Disorder of Glycosylation Type Ia (PMM2) NM_000303:1-8 Inheritance: Autosomal Recessive	Worldwide: 1 in 160	Worldwide: 99%	Worldwide: < 1 in 16,000
先天性醣基化障礙(CDG)1b型 Congenital Disorder of Glycosylation Type Ib (MPI) NM_002435:1-8 Inheritance: Autosomal Recessive	Worldwide: < 1 in 500	Worldwide: 99%	Worldwide: < 1 in 500
先天性醣基化障礙(CDG)1c型 Congenital Disorder of Glycosylation Type Ic (<i>ALG6</i>) NM_013339:2-15 Inheritance: Autosomal Recessive	Worldwide: < 1 in 500	Worldwide: 99%	Worldwide: < 1 in 500
胱胺酸血症 Cystinosis (<i>CTNS</i>) NM_004937:3-12 Inheritance: Autosomal Recessive	Worldwide: 1 in 220	Worldwide: 99%	Worldwide: < 1 in 22,000
丙酮酸鹽脫氫酵素缺乏症 (Pyruvate dehydrogenase deficiency)-E3缺乏症 Dihydrolipoamide Dehydrogenase Deficiency (<i>DLD</i>) NM_000108:1-14 Inheritance: Autosomal Recessive	Ashkenazi Jewish: 1 in 94 Other Populations: < 1 in 500	Ashkenazi Jewish: 99% Other Populations: 99%	Ashkenazi Jewish: < 1 in 9,300 Other Populations: < 1 in 50,000
法布瑞氏症 Fabry Disease (<i>GLA</i>) NM_000169:1-7 Inheritance: X-linked Recessive	Worldwide: 1 in 20,000	Worldwide: 98%	Worldwide: < 1 in 1,000,000

黏脂質症 (Mucolipidosis)	Eastern Asia: 1 in 320	Eastern Asia: 98%	Eastern Asia: < 1 in 17,000
GNPTAB-related Disorders (<i>GNPTAB</i>)	French Canadian/Cajun: 1 in 40	French Canadian/Cajun: 99%	French Canadian/Cajun: < 1 in 3,900
NM 024312:1-21	Middle East: 1 in 140	Middle East: 99%	Middle East: < 1 in 14,000
Inheritance: Autosomal Recessive	Other Populations: 1 in 320	Other Populations: 99%	Other Populations: < 1 in 32,000
GRACILE 症候群			
GRACILE Syndrome (<i>BCS1L</i>)	Finland: 1 in 110	Finland: 99%	Finland: < 1 in 11,000
NM_004328:3-9	Other Populations: < 1 in 500	Other Populations: 99%	Other Populations: < 1 in 50,000
Inheritance: Autosomal Recessive			
半乳糖血症-半乳糖-1-磷酸尿甘醯轉移酵素異常	African American: 1 in 71	African American: 99%	African American: < 1 in 7,000
一乎记忆血血症	Ashkenazi Jewish: 1 in 160	Ashkenazi Jewish: 99%	Ashkenazi Jewish: < 1 in 16,000
NM 000155:1-11	Eastern Asia: 1 in 320	Eastern Asia: 99%	Eastern Asia: < 1 in 32,000
Inheritance: Autosomal Recessive	Northwestern Europe: 1 in 87	Northwestern Europe: 99%	Northwestern Europe: < 1 in 8,600
	Other Populations: 1 in 110	Other Populations: 99%	Other Populations: < 1 in 11,000
半乳糖血症-半乳糖激酶缺乏症	Eastern Asia: < 1 in 500	Eastern Asia: 99%	Eastern Asia: < 1 in 50,000
Galactokinase Deficiency (GALK1)	Northwestern Europe: 1 in 100	Northwestern Europe: 99%	Northwestern Europe: < 1 in 10,000
NM_000154:1-8	Southern Europe: 1 in 310	Southern Europe: 99%	Southern Europe: < 1 in 31,000
Inheritance: Autosomal Recessive	Other Populations: 1 in 350	Other Populations: 99%	Other Populations: < 1 in 35,000
	Ashkenazi Jewish: 1 in 14	Ashkenazi Jewish: 95%	Ashkenazi Jewish: 1 in 270
高雪氏症	Eastern Asia: 1 in 220	Eastern Asia: 60%	Eastern Asia: < 1 in 560
Gaucher Disease (<i>GBA</i>)	Finland: 1 in 110	Finland: 60%	Finland: 1 in 280
N409S, V433L, D448H, D448V, L483P, R502C, R502H, R535H, c.84dupG,	French Canadian/Cajun: 1 in 110	French Canadian/Cajun: 60%	French Canadian/Cajun: 1 in 280
c.115+1G>A	Northwestern Europe: 1 in 110	Northwestern Europe: 60%	Northwestern Europe: 1 in 280
Inheritance: Autosomal Recessive	Southern Europe: 1 in 110	Southern Europe: 60%	Southern Europe: 1 in 280
	Other Populations: 1 in 120	Other Populations: 60%	Other Populations: 1 in 310
遺傳性果糖不耐症,果酸尿症	African American: 1 in 230	African American: 99%	African American: < 1 in 23,000
Hereditary Fructose Intolerance (<i>ALDOB</i>)	French Canadian/Cajun: 1 in 81	French Canadian/Cajun: 99%	French Canadian/Cajun: < 1 in 8,000
NM_000035:2-9	Middle East: 1 in 98	Middle East: 99%	Middle East: < 1 in 9,700
Inheritance: Autosomal Recessive	Other Populations: 1 in 80	Other Populations: 99%	Other Populations: < 1 in 7,900
低磷酸酯酶症	Eastern Asia: 1 in 190	Eastern Asia: 99%	Eastern Asia: < 1 in 19,000
15.吨值货档目增加上 Hypophosphatasia (<i>ALPL</i>)	Northwestern Europe: 1 in 270	Eastern Asia: 99% Northwestern Europe: 99%	Northwestern Europe: < 1 in 27,000
NM 000478:2-12	Southern Europe: 1 in 270	Southern Europe: 99%	Southern Europe: < 1 in 27,000
Inheritance: Autosomal Recessive	Other Populations: 1 in 220	Other Populations: 99%	Other Populations: < 1 in 22,000
		Outer r opulations. 9970	
嬰兒型溶酶體酸性脂肪酶缺乏症(伍爾曼氏症, Wolman Disease)	Hispanic: 1 in 180	Hispanic: 99%	Hispanic: < 1 in 18,000
Lysosomal Acid Lipase Deficiency (<i>LIPA</i>)	Northwestern Europe: 1 in 180	Northwestern Europe: 99%	Northwestern Europe: < 1 in 18,000
NM_000235:2-10	Southern Europe: 1 in 180	Southern Europe: 99%	Southern Europe: < 1 in 18,000
Inheritance: Autosomal Recessive	Other Populations: 1 in 300	Other Populations: 99%	Other Populations: < 1 in 30,000

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黏多醣症第一型 Mucopolysaccharidosis Type I (IDUA) NM_000203:1-14 Inheritance: Autosomal Recessive	Middle East: 1 in 80 Other Populations: 1 in 160	Middle East: 99% Other Populations: 99%	Middle East: < 1 in 7,900 Other Populations: < 1 in 16,000
黏多醣症第二型 Mucopolysaccharidosis Type II (IDS) NM_000202:1-9 Inheritance: X-linked Recessive	Eastern Asia: 1 in 24,000 Northwestern Europe: 1 in 38,000 Other Populations: 1 in 75,000	Eastern Asia: 88% Northwestern Europe: 88% Other Populations: 88%	Eastern Asia: 1 in 200,000 Northwestern Europe: 1 in 300,000 Other Populations: 1 in 600,000
黏多醣症第三A型 Mucopolysaccharidosis Type IIIA (<i>SGSH</i>) NM_000199:1-8 Inheritance: Autosomal Recessive	Middle East: 1 in 150 Northwestern Europe: 1 in 120 Other Populations: 1 in 160	Middle East: 99% Northwestern Europe: 99% Other Populations: 99%	Middle East: < 1 in 14,000 Northwestern Europe: < 1 in 12,000 Other Populations: < 1 in 16,000
黏多醣症第三B型 Mucopolysaccharidosis Type IIIB (<i>NAGLU</i>) NM_000263:1-6 Inheritance: Autosomal Recessive		Eastern Asia: 99% Middle East: 99% Northwestern Europe: 99% Southern Europe: 99% Other Populations: 99%	Eastern Asia: < 1 in 30,000 Middle East: < 1 in 50,000 Northwestern Europe: < 1 in 25,000 Southern Europe: < 1 in 18,000 Other Populations: < 1 in 31,000
黏多醣症第三C型 Mucopolysaccharidosis Type IIIC (<i>HGSNAT</i>) NM_152419:1-18 Inheritance: Autosomal Recessive	Eastern Asia: < 1 in 500 Middle East: < 1 in 500 Northwestern Europe: 1 in 370	Eastern Asia: 99% Middle East: 99% Northwestern Europe: 99%	Eastern Asia: < 1 in 50,000 Middle East: < 1 in 50,000 Northwestern Europe: < 1 in 37,000
黏脂質症第三型 γ Mucolipidosis III Gamma (<i>GNPTG</i>) NM_032520:1-11 Inheritance: Autosomal Recessive	Worldwide: < 1 in 500	Worldwide: 99%	Worldwide: < 1 in 50,000
黏脂質症第四型 Mucolipidosis IV (<i>MCOLN1</i>) NM_020533:1-14 Inheritance: Autosomal Recessive	Ashkenazi Jewish: 1 in 90 Other Populations: < 1 in 500	Ashkenazi Jewish: 99% Other Populations: 99%	Ashkenazi Jewish: < 1 in 8,900 Other Populations: < 1 in 50,000
MLD症候群 Metachromatic Leukodystrophy (<i>ARSA</i>) NM_000487:1-8 Inheritance: Autosomal Recessive	Native American: 1 in 41 Other Populations: 1 in 160	Native American: 99% Other Populations: 99%	Native American: < 1 in 4,000 Other Populations: < 1 in 16,000
尼曼匹克症C1型 Niemann-Pick Disease Type C (NPC1) NM_000271:1-25 Inheritance: Autosomal Recessive	Worldwide: 1 in 190	Worldwide: 99%	Worldwide: < 1 in 19,000

尼曼匹克症C2型			
Niemann-Pick Disease Type C2 (NPC2)	Worldwide: 1 in 500	Worldwide: 99%	Worldwide: < 1 in 50,000
NM_006432:1-5			
Inheritance: Autosomal Recessive			
尼曼匹克症A(B)型(差別在於酵素活性的高低)			
Niemann-Pick Disease, SMPD1-associated (SMPD1)	Ashkenazi Jewish: 1 in 100	Ashkenazi Jewish: 99%	Ashkenazi Jewish: < 1 in 10,000
NM_000543:1-6	Other Populations: 1 in 250	Other Populations: 99%	Other Populations: < 1 in 25,000
Inheritance: Autosomal Recessive			
肝醣儲積症第一a型			
Glycogen Storage Disease Type Ia (GOPC)	Ashkenazi Jewish: 1 in 71	Ashkenazi Jewish: 99%	Ashkenazi Jewish: < 1 in 7,000
NM_000151:1-5	Other Populations: 1 in 180	Other Populations: 99%	Other Populations: < 1 in 18,000
Inheritance: Autosomal Recessive			
肝醣儲積症第一b型			
Glycogen Storage Disease Type Ib (SLC37A4)	Worldwide: 1 in 350	Warldmider 0007	Worldwider < 1 in 25 000
NM_001164277:3-11	worldwide: 1 in 350	Worldwide: 99%	Worldwide: < 1 in 35,000
Inheritance: Autosomal Recessive			
	African American: 1 in 60	African American: 99%	African American: < 1 in 5,900
	Eastern Asia: 1 in 110	Eastern Asia: 99%	Eastern Asia: < 1 in 11,000
龐貝氏症(肝醣儲積症第二型glycogen storage disorder, GSD; glycogenosis II)	Hispanic: 1 in 160	Hispanic: 99%	Hispanic: < 1 in 10,000
Pompe Disease (GAA)	Northwestern Europe: 1 in 160	Northwestern Europe: 98%	Northwestern Europe: < 1 in 6,300
NM_000152:2-20	Southeast Asia: 1 in 110	Southeast Asia: 99%	Southeast Asia: < 1 in 11,000
Inheritance: Autosomal Recessive	Southern Europe: 1 in 160	Southern Europe: 98%	Southern Europe: < 1 in 6,300
	Other Populations: 1 in 160	Other Populations: 99%	Other Populations: < 1 in 16,000
肝醣儲積症第三型			
Glycogen Storage Disease Type III (<i>AGL</i>)			
NM 000642:2-34	Worldwide: 1 in 160	Worldwide: 99%	Worldwide: < 1 in 16,000
Inheritance: Autosomal Recessive			
			+
原發性肉鹼缺乏症			
Primary Carnitine Deficiency (<i>SLC22A5</i>)	Eastern Asia: 1 in 100	Eastern Asia: 99%	Eastern Asia: < 1 in 10,000
NM 003060:1-10	Northwestern Europe: 1 in 110	Northwestern Europe: 99%	Northwestern Europe: < 1 in 11,000
Inheritance: Autosomal Recessive	Other Populations: 1 in 160	Other Populations: 99%	Other Populations: < 1 in 16,000
Innernance: Autosomai Recessive			
先天性高乳酸血症 (Congenital Hyperlactic Acidemia)-丙酮酸去氫酶缺乏			
Pyruvate Carboxylase Deficiency (PC)			
NM_000920:3-22	Worldwide: 1 in 250	Worldwide: 99%	Worldwide: < 1 in 25,000
Inheritance: Autosomal Recessive			

肢近端型點狀軟骨發育不良第一型 Rhizomelic Chondrodysplasia Punctata Type 1 (PEX7) NM_000288:1-10 Inheritance: Autosomal Recessive	Worldwide: 1 in 160	Worldwide: 99%	Worldwide: < 1 in 16,000
短鏈脂肪酸去氫酶缺乏症 Short-chain Acyl-CoA Dehydrogenase Deficiency (<i>ACADS</i>) NM_000017:1-10 Inheritance: Autosomal Recessive	Northwestern Europe: 1 in 110 Other Populations: 1 in 98	Northwestern Europe: 99% Other Populations: 99%	Northwestern Europe: < 1 in 11,000 Other Populations: < 1 in 9,700
中鏈脂肪酸去氫酵素缺乏症 (MCAD) Medium Chain Acyl-CoA Dehydrogenase Deficiency (<i>ACADM</i>) NM_000016:1-12 Inheritance: Autosomal Recessive	Eastern Asia: 1 in 110 Middle East: 1 in 68 Northwestern Europe: 1 in 45 Southern Europe: 1 in 62 Other Populations: 1 in 61	Eastern Asia: 99% Middle East: 99% Northwestern Europe: 99% Southern Europe: 99% Other Populations: 99%	Eastern Asia: < 1 in 11,000 Middle East: < 1 in 6,700 Northwestern Europe: < 1 in 4,400 Southern Europe: < 1 in 6,100 Other Populations: < 1 in 6,000
長鏈酰基輔酶A脫氫酶缺乏症 (Long-Chain-AcylCoA Dehydrogenase) HADHA-related Disorders (<i>HADHA</i>) NM_000182:1-20 Inheritance: Autosomal Recessive	Finland: 1 in 130 Northwestern Europe: 1 in 200 Other Populations: 1 in 250	Finland: 99% Northwestern Europe: 99% Other Populations: 99%	Finland: < 1 in 12,000 Northwestern Europe: < 1 in 20,000 Other Populations: < 1 in 25,000
極長鏈醯輔酶A去氫酶缺乏症 (VLCAD) Very-long-chain Acyl-CoA Dehydrogenase Deficiency (<i>ACADVL</i>) NM_000018:1-20 Inheritance: Autosomal Recessive	Eastern Asia: 1 in 130 Northwestern Europe: 1 in 180 Southern Europe: 1 in 200 Other Populations: 1 in 140	Eastern Asia: 99% Northwestern Europe: 99% Southern Europe: 99% Other Populations: 99%	Eastern Asia: < 1 in 12,000 Northwestern Europe: < 1 in 18,000 Southern Europe: < 1 in 20,000 Other Populations: < 1 in 14,000
威爾森氏症 Wilson Disease (<i>ATP7B</i>) NM_000053:1-21 Inheritance: Autosomal Recessive	Eastern Asia: 1 in 51 Southeast Asia: 1 in 51 Other Populations: 1 in 87	Eastern Asia: 99% Southeast Asia: 99% Other Populations: 99%	Eastern Asia: < 1 in 5,000 Southeast Asia: < 1 in 5,000 Other Populations: < 1 in 8,600
腎上腺腦白質失養症(ALD) X-linked Adrenoleukodystrophy (<i>ABCD1</i>) NM_000033:1-6 Inheritance: X-linked Recessive 04.皮膚病變	Eastern Asia: 1 in 20,000 Southern Europe: 1 in 14,000 Other Populations: 1 in 11,000	Eastern Asia: 77% Southern Europe: 77% Other Populations: 77%	Eastern Asia: 1 in 86,000 Southern Europe: 1 in 60,000 Other Populations: 1 in 45,000
04.反廣內愛 Herlitz交界型表皮溶解水皰症 (泡泡龍)-LAMA3變異 Herlitz Junctional Epidermolysis Bullosa, LAMA3-related (<i>LAMA3</i>) NM_000227:1-38 Inheritance: Autosomal Recessive	Worldwide: < 1 in 500	Worldwide: 99%	Worldwide: < 1 in 50,000

Herlitz交界型表皮溶解水皰症(泡泡龍)-LAMB3變異			
Herlitz Junctional Epidermolysis Bullosa, LAMB3-related (<i>LAMB3</i>)	Worldwide: < 1 in 500	Worldwide: 99%	Worldwide: < 1 in 50,000
NM_000228:2-23 Inheritance: Autosomal Recessive			
Herlitz交界型表皮溶解水皰症 (泡泡龍)-LAMC2變異			
Herlitz Junctional Epidermolysis Bullosa, LAMC2-related (LAMC2)			
NM 005562:1-23	Worldwide: < 1 in 500	Worldwide: 99%	Worldwide: < 1 in 50,000
Inheritance: Autosomal Recessive			
先天性角化不全症(DC) RTEL1變異			
RTEL1-related Disorders (<i>RTEL1</i>)	Ashkenazi Jewish: 1 in 100	Ashkenazi Jewish: 99%	Ashkenazi Jewish: < 1 in 10.000
NM_032957:2-35	Other Populations: < 1 in 500	Other Populations: 99%	Other Populations: < 1 in 50,000
Inheritance: Autosomal Recessive			
Sjogren-Larsson氏症候群			
Sjogren-Larsson Syndrome (ALDH3A2)	W 11 1 1 250	W 11 1 070	W 11 11 11 0 100
NM_000382:1-10	Worldwide: 1 in 250	Worldwide: 97%	Worldwide: < 1 in 9,100
Inheritance: Autosomal Recessive			
層狀魚鱗癬(自體隱性遺傳型)			
TGM1-related Autosomal Recessive Congenital Ichthyosis (TGM1)	Worldwide: 1 in 220	Worldwide: 99%	Worldwide: < 1 in 22,000
NM_000359:2-15		world wide: <i>99</i> 70	wondwide. < 1 in 22,000
Inheritance: Autosomal Recessive			
著色性乾皮症(XP)A型	Eastern Asia: 1 in 100	Eastern Asia: 99%	Eastern Asia: < 1 in 10,000
Xeroderma Pigmentosum Group A (XPA)	Middle East: 1 in 280	Middle East: 99%	Middle East: < 1 in 28,000
NM_000380:1-6	South Asia: 1 in 280	South Asia: 99%	South Asia: < 1 in 28,000
Inheritance: Autosomal Recessive	Other Populations: < 1 in 500	Other Populations: 99%	Other Populations: < 1 in 50,000
著色性乾皮症(XP)C型			
Xeroderma Pigmentosum Group C (XPC)	Worldwide: 1 in 240	Worldwide: 97%	Worldwide: < 1 in 7,300
NM_004628:1-16			
Inheritance: Autosomal Recessive 05.肌肉病變			
表審CML内安網症/只元CML内安網症 Dystrophinopathy (Including Duchenne/Becker Muscular Dystrophy) (DMD)			
NM 004006:1-79		Worldwide: 99%	Worldwide: < 1 in 3,500
Inheritance: X-linked Recessive			
肢帶型肌肉失養症2A型			
Calpainopathy (<i>CAPN3</i>)			
NM 000070:1-24	Worldwide: 1 in 130	Worldwide: 99%	Worldwide: < 1 in 13,000
Inheritance: Autosomal Recessive			
	+	+	•

肢帶型肌肉失養症2B型-修肌蛋白缺乏症/三好氏肌肉病變 (Miyoshi myopathy) Dysferlinopathy (DYSF) NM_003494:1-55 Inheritance: Autosomal Recessive	Worldwide: 1 in 190	Worldwide: 98%	Worldwide: < 1 in 11,000
肢帶型肌肉失養症2C型-γ-肌聚糖病 Gamma-sarcoglycanoCpathy (<i>SGCG</i>) NM_000231:2-8 Inheritance: Autosomal Recessive	Eastern Asia: 1 in 380 Other Populations: 1 in 350	Eastern Asia: 88% Other Populations: 88%	Eastern Asia: < 1 in 3,200 Other Populations: < 1 in 3,000
肢帶型肌肉失養症2D型-α-肌聚糖病 Alpha-sarcoglycanopathy (<i>SGCA</i>) NM_000023:1-9 Inheritance: Autosomal Recessive	Worldwide: 1 in 450	Worldwide: 99%	Worldwide: < 1 in 45,000
肢帶型肌肉失養症2E型-β-肌聚糖病 Beta-sarcoglycanopathy (<i>SGCB</i>) NM_000232:1-6 Inheritance: Autosomal Recessive	Worldwide: < 1 in 500	Worldwide: 99%	Worldwide: < 1 in 50,000
肢帶型肌肉失養症2F型-δ-肌聚糖病 Delta-sarcoglycanopathy (<i>SGCD</i>) NM_000337:2-9 Inheritance: Autosomal Recessive	Worldwide: < 1 in 500	Worldwide: 99%	Worldwide: < 1 in 40,000
肢帶型肌肉失養症2I型 FKRP-related Disorders (<i>FKRP</i>) NM_024301:4 Inheritance: Autosomal Recessive	Eastern Asia: < 1 in 500 Northwestern Europe: 1 in 160 South Asia: < 1 in 500 Southeast Asia: < 1 in 500 Other Populations: 1 in 190	Eastern Asia: 99% Northwestern Europe: 99% South Asia: 99% Southeast Asia: 99% Other Populations: 99%	Eastern Asia: < 1 in 50,000 Northwestern Europe: < 1 in 16,000 South Asia: < 1 in 50,000 Southeast Asia: < 1 in 50,000 Other Populations: < 1 in 19,000
肢帶型肌肉失養症2M型 FKTN-related Disorders (<i>FKTN</i>) NM_001079802:3-11 Inheritance: Autosomal Recessive	Ashkenazi Jewish: 1 in 150 Eastern Asia: 1 in 190 Other Populations: < 1 in 500	Ashkenazi Jewish: 99% Eastern Asia: 10% Other Populations: 99%	Ashkenazi Jewish: < 1 in 15,000 Eastern Asia: 1 in 210 Other Populations: < 1 in 50,000
遺傳性包涵體肌炎 (IBM) Inclusion Body Myopathy 2 (<i>GNE</i>) NM_001128227:1-12 Inheritance: Autosomal Recessive	Middle East: 1 in 130 Other Populations: < 1 in 500	Middle East: 99% Other Populations: 99%	Middle East: < 1 in 12,000 Other Populations: < 1 in 50,000

先天性肌失養症 (Congenital Muscular Dystrophy)-層粘連蛋白 a -2缺乏症(非福 山型) LAMA2-related Muscular Dystrophy (<i>LAMA2</i>) NM_000426:1-65 Inheritance: Autosomal Recessive	Eastern Asia: < 1 in 610 Northwestern Europe: 1 in 340 Southern Europe: 1 in 340 Other Populations: 1 in 170	Eastern Asia: 99% Northwestern Europe: 99% Southern Europe: 99% Other Populations: 99%	Eastern Asia: < 1 in 61,000 Northwestern Europe: < 1 in 34,000 Southern Europe: < 1 in 34,000 Other Populations: < 1 in 17,000
先天性肌失養症 (Congenital Muscular Dystrophy)-肌-眼-腦病(非福山型) Muscle-eye-brain Disease (<i>POMGNT1</i>) NM_017739:2-22 Inheritance: Autosomal Recessive	Finland: < 1 in 500 Other Populations: < 1 in 500	Finland: 98% Other Populations: 96%	Finland: < 1 in 25,000 Other Populations: < 1 in 12,000
線狀體肌肉病變第二型(NEM2) NEB-related Nemaline Myopathy (NEB) NM_001271208:3-80,117-183 Inheritance: Autosomal Recessive	Ashkenazi Jewish: 1 in 110 Other Populations: 1 in 87	Ashkenazi Jewish: 99% Other Populations: 93%	Ashkenazi Jewish: < 1 in 11,000 Other Populations: < 1 in 1,200
性聯肌小管病變 X-linked Myotubular Myopathy (<i>MTM1</i>) NM_000252:2-15 Inheritance: X-linked Recessive	Worldwide: 1 in 500	Worldwide: 98%	Worldwide: <1 in 50,000
06.骨頭病變			
體染色體隱性骨質石化症 (大理石寶寶) Autosomal Recessive Osteopetrosis Type 1 (<i>TCIRG1</i>) NM_006019:2-20 Inheritance: Autosomal Recessive	Middle East: 1 in 97 Other Populations: 1 in 350	Middle East: 99% Other Populations: 99%	Middle East: < 1 in 9,600 Other Populations: < 1 in 35,000
軟骨頭髮發育不全 Cartilage-hair Hypoplasia (<i>RMRP</i>) NR_003051:1 Inheritance: Autosomal Recessive	Finland: 1 in 76 Other Populations: < 1 in 500	Finland: 99% Other Populations: 99%	Finland: < 1 in 7,500 Other Populations: < 1 in 50,000
緻密性骨發育不全症 Pycnodysostosis (<i>CTSK</i>) NM_000396:2-8 Inheritance: Autosomal Recessive	Worldwide: < 1 in 500	Worldwide: 99%	Worldwide: < 1 in 50,000
脊椎肋骨發育不全 Spondylothoracic Dysostosis (<i>MESP2</i>) NM_001039958:1-2 Inheritance: Autosomal Recessive	Worldwide: < 1 in 500	Worldwide: 99%	Worldwide: < 1 in 50,000
硫酸鹽轉運蛋白相關軟骨成長不全 Sulfate Transporter-related Osteochondrodysplasia (<i>SLC26A2</i>) NM_000112:2-3 Inheritance: Autosomal Recessive	Finland: 1 in 75 Other Populations: 1 in 110	Finland: 99% Other Populations: 99%	Finland: < 1 in 7,400 Other Populations: < 1 in 11,000

07.血液疾病			
再生不良性貧血(Aplastic anemia)-Fanconi氏貧血 Fanconi Anemia Complementation Group A (<i>FANCA</i>) NM_000135:1-43 Inheritance: Autosomal Recessive	Eastern Asia: 1 in 260 Hispanic: 1 in 250 Northwestern Europe: 1 in 240 Southern Europe: 1 in 240 Other Populations: 1 in 260	Eastern Asia: 92% Hispanic: 92% Northwestern Europe: 92% Southern Europe: 92% Other Populations: 92%	Eastern Asia: < 1 in 3,100 Hispanic: < 1 in 2,900 Northwestern Europe: < 1 in 2,800 Southern Europe: < 1 in 2,800 Other Populations: < 1 in 3,100
再生不良性貧血(Aplastic anemia)-Fanconi氏貧血 Fanconi Anemia, FANCC-related (<i>FANCC</i>) NM_000136:2-15 Inheritance: Autosomal Recessive	Ashkenazi Jewish: 1 in 94 Other Populations: < 1 in 500	Ashkenazi Jewish: 99% Other Populations: 99%	Ashkenazi Jewish: < 1 in 9,300 Other Populations: < 1 in 50,000
α-地中海型貧血 Alpha Thalassemia (<i>HBA1/HBA2</i>) Variants Genotyped (13): Hb Constant Spring, -alpha4.2, anti4.2, -alpha3.7, anti3.7, MEDII,BRIT, -(alpha)20.5,MEDI,SEA, del HS-40,THAI/FIL, HBA1+HBA2 deletion. Inheritance: Autosomal Recessive	Worldwide: 1/270	Worldwide: 99%	Worldwide: < 1 in 27,000
β鏈相關血紅素病變 (β-地中海型貧血與鐮刀型貧血) Hb Beta Chain-related Hemoglobinopathy (Including Beta Thalassemia and Sickle Cell Disease) (<i>HBB</i>) NM_000518:1-3 Inheritance: Autosomal Recessive	African American: 1 in 11 Ashkenazi Jewish: 1 in 67 Eastern Asia: 1 in 51 Finland: 1 in 80 French Canadian/Cajun: 1 in 67 Hispanic: 1 in 25 Middle East: 1 in 23 Native American: 1 in 67 Northwestern Europe: 1 in 32 South Asia: 1 in 23 Southeast Asia: 1 in 23 Southern Europe: 1 in 14	African American: 99% Ashkenazi Jewish: 99% Eastern Asia: 99% Finland: 99% French Canadian/Cajun: 99% Hispanic: 99% Middle East: 99% Native American: 99% Northwestern Europe: 99% South Asia: 99% Southeast Asia: 99% Southern Europe: 99%	African American: < 1 in 950 Ashkenazi Jewish: < 1 in 6,600 Eastern Asia: < 1 in 5,000 Finland: < 1 in 7,900 French Canadian/Cajun: < 1 in 6,600 Hispanic: < 1 in 2,400 Middle East: < 1 in 2,200 Native American: < 1 in 6,600 Northwestern Europe: < 1 in 3,100 South Asia: < 1 in 2,200 Southeast Asia: < 1 in 2,200 Southeast Asia: < 1 in 2,200
08.腦部及神經病變			
複雜型體染色體隱性遺傳痙攣性下身麻痺(Hereditary Spastic Paraplegia, HSP) ARSACS (<i>SACS</i>) NM_014363:2-10 Inheritance: Autosomal Recessive	French Canadian/Cajun: 1 in 22 Other Populations: < 1 in 500	French Canadian/Cajun: 99% Other Populations: 99%	French Canadian/Cajun: < 1 in 1,900 Other Populations: < 1 in 44,000
Andermann症候群 Andermann Syndrome (<i>SLC12A6</i>) NM_133647:1-25 Inheritance: Autosomal Recessive	French Canadian/Cajun: 1 in 23 Other Populations: < 1 in 500	French Canadian/Cajun: 99% Other Populations: 99%	French Canadian/Cajun: < 1 in 2,200 Other Populations: < 1 in 50,000

共濟失調微血管擴張症候群(AT) Ataxia-telangiectasia (<i>ATM</i>) NM_000051:2-63 Inheritance: Autosomal Recessive 神經元蠟樣脂褐質儲積症(NCLs)-嬰兒晚期型(芬蘭變異型) CLN5-related Neuronal Ceroid Lipofuscinosis (<i>CLN5</i>)	Ashkenazi Jewish: 1 in 200 Finland: 1 in 200 French Canadian/Cajun: 1 in 200 Hispanic: 1 in 120 Northwestern Europe: 1 in 200 Southern Europe: 1 in 200 Other Populations: 1 in 120 Finland: 1 in 24	Ashkenazi Jewish: 99% Finland: 99% French Canadian/Cajun: 99% Hispanic: 97% Northwestern Europe: 98% Southern Europe: 99% Other Populations: 99% Finland: 99%	Ashkenazi Jewish: < 1 in 20,000 Finland: < 1 in 20,000 French Canadian/Cajun: < 1 in 20,000 Hispanic: < 1 in 3,700 Northwestern Europe: < 1 in 11,000 Southern Europe: < 1 in 18,000 Other Populations: < 1 in 12,000 Finland: < 1 in 2,300
NM_006493:1-4	Other Populations: < 1 in 500	Other Populations: 99%	Other Populations: < 1 in 50,000
Inheritance: Autosomal Recessive			
神經元蠟樣脂褐質儲積症(NCLs)-嬰兒晚期型(吉普賽/印度變異型) CLN6-related Neuronal Ceroid Lipofuscinosis (<i>CLN6</i>) NM_017882:1-7 Inheritance: Autosomal Recessive	French Canadian/Cajun: 1 in 430 Northwestern Europe: 1 in 430 Southern Europe: 1 in 430 Other Populations: < 1 in 500	French Canadian/Cajun: 99% Northwestern Europe: 99% Southern Europe: 99% Other Populations: 99%	French Canadian/Cajun: < 1 in 43,000 Northwestern Europe: < 1 in 43,000 Southern Europe: < 1 in 43,000 Other Populations: < 1 in 50,000
神經元蠟樣脂褐質儲積症(NCLs)-青春型	Finland: 1 in 71	Finland: 99%	Finland: < 1 in 7,000
CLN3-related Neuronal Ceroid Lipofuscinosis (<i>CLN3</i>)	Northwestern Europe: 1 in 87	Northwestern Europe: 99%	Northwestern Europe: < 1 in 8,600
NM 001042432:2-16	Southern Europe: 1 in 280	Southern Europe: 99%	Southern Europe: < 1 in 28,000
Inheritance: Autosomal Recessive	Other Populations: 1 in 130	Other Populations: 99%	Other Populations: < 1 in 13,000
家族性軸突海綿退化 Canavan Disease (<i>ASPA</i>) NM_000049:1-6 Inheritance: Autosomal Recessive	Ashkenazi Jewish: 1 in 55 Other Populations: 1 in 160	Ashkenazi Jewish: 98% Other Populations: 98%	Ashkenazi Jewish: < 1 in 3,300 Other Populations: < 1 in 9,700
家族性廣泛型自主神經病變 Familial Dysautonomia (<i>IKBKAP</i>) NM_003640:2-37 Inheritance: Autosomal Recessive	Ashkenazi Jewish: 1 in 31 Other Populations: < 1 in 500	Ashkenazi Jewish: 99% Other Populations: 99%	Ashkenazi Jewish: < 1 in 3,000 Other Populations: < 1 in 50,000
Joubert氏症候群 (家族性小腦蚓部發育不全) Joubert Syndrome 2 (<i>TMEM216</i>) NM_001173990:1-5 Inheritance: Autosomal Recessive	Ashkenazi Jewish: 1 in 97 Other Populations: < 1 in 500	Ashkenazi Jewish: 99% Other Populations: 99%	Ashkenazi Jewish: < 1 in 9,600 Other Populations: < 1 in 50,000
Krabbe氏症(球細胞腦白質失養症) Krabbe Disease (<i>GALC</i>) NM_000153:1-17 Inheritance: Autosomal Recessive	Ashkenazi Jewish: < 1 in 500 Other Populations: 1 in 150	Ashkenazi Jewish: 99% Other Populations: 99%	Ashkenazi Jewish: < 1 in 50,000 Other Populations: < 1 in 15,000

Leigh症候群 (LS)-亞急性壞死性腦脊髓病 Leigh Syndrome, French-Canadian Type (<i>LRPPRC</i>) NM_133259:1-38 Inheritance: Autosomal Recessive	French Canadian/Cajun: 1 in 23 Other Populations: < 1 in 500	French Canadian/Cajun: 99% Other Populations: 99%	French Canadian/Cajun: < 1 in 2,200 Other Populations: < 1 in 50,000
GM1神經節苷脂儲積症(GM1 Gangliosidosis) GLB1-related Disorders (<i>GLB1</i>) NM_000404:1-16 Inheritance: Autosomal Recessive	Worldwide: 1 in 190	Worldwide: 99%	Worldwide: < 1 in 19,000
成年型GM2神經節甘脂儲積症 (包含戴薩克斯症) Hexosaminidase A Deficiency (Including Tay-Sachs Disease) (<i>HEXA</i>) NM_000520:1-14 Inheritance: Autosomal Recessive	Ashkenazi Jewish: 1 in 31 French Canadian/Cajun: 1 in 51 Other Populations: 1 in 300	Ashkenazi Jewish: 99% French Canadian/Cajun: 99% Other Populations: 99%	Ashkenazi Jewish: < 1 in 3,000 French Canadian/Cajun: < 1 in 5,000 Other Populations: < 1 in 30,000
GM2 神經節苷脂儲積症-山德霍夫氏病 Sandhoff Disease (<i>HEXB</i>) NM_000521:1-14 Inheritance: Autosomal Recessive	Ashkenazi Jewish: < 1 in 500 French Canadian/Cajun: 1 in 120 Northwestern Europe: 1 in 320 Southern Europe: 1 in 320 Other Populations: 1 in 320	Ashkenazi Jewish: 99% French Canadian/Cajun: 99% Northwestern Europe: 99% Southern Europe: 99% Other Populations: 99%	Ashkenazi Jewish: < 1 in 47,000 French Canadian/Cajun: < 1 in 11,000 Northwestern Europe: < 1 in 32,000 Southern Europe: < 1 in 32,000 Other Populations: < 1 in 30,000
神經元蠟樣脂褐質儲積症-北方癲癇型(NE) Northern Epilepsy (<i>CLN</i> 8) NM_018941:2-3 Inheritance: Autosomal Recessive	Finland: 1 in 140 Other Populations: < 1 in 500	Finland: 99% Other Populations: 99%	Finland: < 1 in 13,000 Other Populations: < 1 in 50,000
神經元蠟樣脂褐質儲積症-PPT1變異 PPT1-related Neuronal Ceroid Lipofuscinosis (<i>PPT1</i>) NM_000310:1-9 Inheritance: Autosomal Recessive	Finland: 1 in 71 Other Populations: 1 in 78	Finland: 99% Other Populations: 99%	Finland: < 1 in 7,000 Other Populations: < 1 in 7,700
神經元蠟樣脂褐質儲積症-TPP1變異 TPP1-related Neuronal Ceroid Lipofuscinosis (TPP1) NM_000391:1-13 Inheritance: Autosomal Recessive	Worldwide: 1 in 300	Worldwide: 99%	Worldwide: < 1 in 30,000
Zellweger氏症候群_PEX1變異 PEX1-related Zellweger Syndrome Spectrum (<i>PEX1</i>) NM_000466:1-24 Inheritance: Autosomal Recessive	Eastern Asia: 1 in 350 Native American: 1 in 350 South Asia: 1 in 350 Southeast Asia: 1 in 350 Other Populations: 1 in 110	Eastern Asia: 99% Native American: 99% South Asia: 99% Southeast Asia: 99% Other Populations: 99%	Eastern Asia: < 1 in 35,000 Native American: < 1 in 35,000 South Asia: < 1 in 35,000 Southeast Asia: < 1 in 35,000 Other Populations: < 1 in 11,000
過氧化物酶體生源失調症第三型- <i>Zellweger氏症候群_PEX12變異</i> Peroxisome Biogenesis Disorder Type 3 (<i>PEX12</i>) NM_000286:1-3 Inheritance: Autosomal Recessive	Eastern Asia: < 1 in 500 Other Populations: 1 in 440	Eastern Asia: 99% Other Populations: 99%	Eastern Asia: < 1 in 50,000 Other Populations: < 1 in 44,000

過氧化物酶體生源失調症第四型-Zellweger氏症候群_PEX6變異			
Peroxisome Biogenesis Disorder Type 4 (<i>PEX6</i>)	French Canadian/Cajun: 1 in 56	French Canadian/Cajun: 97%	French Canadian/Cajun: < 1 in 1,600
NM 000287:1-17	Other Populations: 1 in 310	Other Populations: 97%	Other Populations: < 1 in 9,300
Inheritance: Autosomal Recessive			
過氧化物酶體生源失調症第五型			
Peroxisome Biogenesis Disorder Type 5 (PEX2)	Ashkenazi Jewish: 1 in 120	Ashkenazi Jewish: 99%	Ashkenazi Jewish: < 1 in 12,000
NM_000318:4	Other Populations: < 1 in 710	Other Populations: 99%	Other Populations: < 1 in 71,000
Inheritance: Autosomal Recessive			
過氧化物酶體生源失調症第六型-Zellweger氏症候群_PEX10變異			
Peroxisome Biogenesis Disorder Type 6 (PEX10)	Worldwide: < 1 in 500	Worldwide: 99%	Worldwide: < 1 in 50,000
NM_153818:1-6	wondwide: < 1 in 500	wondwide. 99%	wondwide: < 1 in 50,000
Inheritance: Autosomal Recessive			
瀨川氏症(SS)/多巴胺反應性肌張力不全症(DRD) Segawa Syndrome (TH) NM_199292:1-14 Inheritance: Autosomal Recessive	Worldwide: < 1 in 500	Worldwide: 99%	Worldwide: < 1 in 50,000
遺傳性痙攣性下身麻痺(HSP)第15型 (SPG15) Spastic Paraplegia Type 15 (<i>ZFYVE26</i>) NM_015346:2-42 Inheritance: Autosomal Recessive	Worldwide: < 1 in 500	Worldwide: 99%	Worldwide: < 1 in 50,000
	African American: 1 in 66	African American: 71%	African American: 1 in 120
	Ashkenazi Jewish: 1 in 41	Ashkenazi Jewish: 94%	Ashkenazi Jewish: 1 in 350
	Eastern Asia: 1 in 53	Eastern Asia: 93%	Eastern Asia: < 1 in 630
	Finland: 1 in 35	Finland: 94%	Finland: < 1 in 560
脊髓性肌肉萎縮症(SMA)	French Canadian/Cajun: 1 in 35	French Canadian/Cajun: 95%	French Canadian/Cajun: < 1 in 570
Spinal Muscular Atrophy (<i>SMN1</i>)	Hispanic: 1 in 120	Hispanic: 91%	Hispanic: < 1 in 1,100
SMN1 copy number	Middle East: 1 in 50	Middle East: 92%	Middle East: < 1 in 560
Inheritance: Autosomal Recessive	Native American: 1 in 50	Native American: 93%	Native American: < 1 in 690
	Northwestern Europe: 1 in 35	Northwestern Europe: 95%	Northwestern Europe: < 1 in 630
	South Asia: 1 in 50	South Asia: 93%	South Asia: < 1 in 630
	Southeast Asia: 1 in 53	Southeast Asia: 93%	Southeast Asia: < 1 in 630
09.外觀異常	Southern Europe: 1 in 57	Southern Europe: 94%	Southern Europe: < 1 in 890
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科恩綜合症			
Cohen Syndrome (<i>VPS13B</i>) NM_017890:2-62 Inheritance: Autosomal Recessive	Finland: 1 in 160 Other Populations: < 1 in 500		Finland: < 1 in 4,800 Other Populations: < 1 in 15,000
Hydrolethalus 綜合症 Hydrolethalus Syndrome (<i>HYLS1</i>) NM_145014:4 Inheritance: Autosomal Recessive	Finland: 1 in 71 Other Populations: < 1 in 500	Finland: 99% Other Populations: 99%	Finland: < 1 in 7,000 Other Populations: < 1 in 50,000
Meckel-Gruber症候群-MKSI變異 MKS1-related Disorders (<i>MKS1</i>) NM_017777:1-18 Inheritance: Autosomal Recessive	Finland: 1 in 48 Other Populations: < 1 in 500		Finland: < 1 in 4,700 Other Populations: < 1 in 50,000
Smith-Lemli-Opitz症候群 Smith-Lemli-Opitz Syndrome (<i>DHCR7</i>) NM_001360:3-9 Inheritance: Autosomal Recessive	Ashkenazi Jewish: 1 in 100 Finland: 1 in 100 French Canadian/Cajun: 1 in 100 Hispanic: 1 in 140 Northwestern Europe: 1 in 50 Southern Europe: 1 in 83 Other Populations: < 1 in 500	French Canadian/Cajun: 99% Hispanic: 99% Northwestern Europe: 99% Southern Europe: 99%	Ashkenazi Jewish: < 1 in 10,000 Finland: < 1 in 10,000 French Canadian/Cajun: < 1 in 10,000 Hispanic: < 1 in 13,000 Northwestern Europe: < 1 in 4,900 Southern Europe: < 1 in 8,200 Other Populations: < 1 in 50,000
10. 感覺器官失能(聽覺/視覺)			
Costeff症候群 Costeff Optic Atrophy Syndrome (<i>OPA3</i>) NM_025136:1-2 Inheritance: Autosomal Recessive	Middle East: 1 in 51 Other Populations: < 1 in 500	Middle East: 99% Other Populations: 99%	Middle East: < 1 in 5,000 Other Populations: < 1 in 50,000
遺傳性耳聾-GJB2變異 GJB2-related DFNB1 Nonsyndromic Hearing Loss and Deafness (<i>GJB2</i>) NM_004004:1-2 Inheritance: Autosomal Recessive	African American: 1 in 48 Ashkenazi Jewish: 1 in 21 Finland: 1 in 42 French Canadian/Cajun: 1 in 42 Northwestern Europe: 1 in 33 Southern Europe: 1 in 42 Other Populations: 1 in 100	African American: 99% Ashkenazi Jewish: 99% Finland: 99% French Canadian/Cajun: 99% Northwestern Europe: 99% Southern Europe: 99% Other Populations: 99%	African American: < 1 in 4,700 Ashkenazi Jewish: < 1 in 2,000 Finland: < 1 in 4,100 French Canadian/Cajun: < 1 in 4,100 Northwestern Europe: < 1 in 3,200 Southern Europe: < 1 in 4,100 Other Populations: < 1 in 10,000
遺傳性耳聾-MYO7A變異 MYO7A-related Disorders (<i>MYO7A</i>) NM_000260:2-49 Inheritance: Autosomal Recessive	Worldwide: 1 in 150	Worldwide: 99%	Worldwide: < 1 in 15,000

Pendred氏症候群 Pendred Syndrome (<i>SLC26A4</i>)			
NM 000441:2-21	Worldwide: 1 in 71	Worldwide: 99%	Worldwide: < 1 in 7,000
Inheritance: Autosomal Recessive			
尤塞氏综合症			
PCDH15-related Disorders (<i>PCDH15</i>)	Ashkenazi Jewish: 1 in 78	Ashkenazi Jewish: 93%	Ashkenazi Jewish: < 1 in 1,200
NM 033056:2-33	Other Populations: 1 in 220	Other Populations: 93%	Other Populations: < 1 in 3,300
Inheritance: Autosomal Recessive	Other Topulations. T III 220	Other Topulations. 95 %	
尤塞氏综合症1C型			
USH1C-related Disorders (USH1C)	French Canadian/Cajun: 1 in 230	French Canadian/Cajun: 99%	French Canadian/Cajun: < 1 in 23,000
NM 005709:1-21	Other Populations: 1 in 350	Other Populations: 99%	Other Populations: < 1 in 35,000
Inheritance: Autosomal Recessive	Other ropulations. Thi 550	Other Topulations. 99 %	
尤塞氏综合症第二型			
USH2A-related Disorders (USH2A)			
NM 206933:2-72	Worldwide: 1 in 130	Worldwide: 94%	Worldwide: < 1 in 2,200
Inheritance: Autosomal Recessive			
尤塞氏综合症第三型			
Usher Syndrome Type 3 (<i>CLRN1</i>)	Ashkenazi Jewish: 1 in 120	Ashkenazi Jewish: 99%	Ashkenazi Jewish: < 1 in 12,000
NM_174878:1-3	Other Populations: < 1 in 500	Other Populations: 99%	Other Populations: < 1 in 50,000
Inheritance: Autosomal Recessive	Other Populations. < 1 in 500	Other Populations. 99%	Other Populations. $< 1 \text{ m}$ 50,000
Internatice. Autosoniai Recessive	Ashkenazi Jewish: 1 in 10,000	Ashkenazi Jewish: 99%	Ashkenazi Jewish: 1 in 670,000
X染色體串聯視網膜裂損症	Finland: 1 in 8,500	Finland: 99%	Finland: 1 in 570,000
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X-linked Juvenile Retinoschisis (<i>RS1</i>)	French Canadian/Cajun: 1 in 10,000	_	French Canadian/Cajun: 1 in 670,000
NM_000330:1-6	Northwestern Europe: 1 in 10,000	Northwestern Europe: 99%	Northwestern Europe: 1 in 670,000
Inheritance: X-linked Recessive	Southern Europe: 1 in 10,000	Southern Europe: 99%	Southern Europe: 1 in 670,000
ملم ملی ملی ول	Other Populations: 1 in 13,000	Other Populations: 99%	Other Populations: 1 in 840,000
11.免疫疾病			
嚴重複合型免疫缺乏症(severe combined immunodeficiency, SCID)-腺苷脱氨酶			
缺乏症	Northwestern Europe: 1 in 220	Northwestern Europe: 99%	Northwestern Europe: < 1 in 22,000
Adenosine Deaminase Deficiency (<i>ADA</i>)	Other Populations: 1 in 390	Other Populations: 99%	Other Populations: < 1 in 39,000
NM_000022:1-12			
Inheritance: Autosomal Recessive			
自體免疫多腺體症候群第一型(APS)			
Autoimmune Polyglandular Syndrome Type 1 (<i>AIRE</i>)	Finland: 1 in 80	Finland: 99%	Finland: < 1 in 7,900
NM_000383:1-14	Northwestern Europe: 1 in 150	Northwestern Europe: 99%	Northwestern Europe: < 1 in 15,000
Inheritance: Autosomal Recessive	Other Populations: 1 in 180	Other Populations: 99%	Other Populations: < 1 in 18,000
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嚴重複合型免疫缺乏症 (SCID) X-linked Severe Combined Immunodeficiency (IL2RG) NM_000206:1-8 Inheritance: X-linked Recessive	Worldwide: 1 in 50,000	Worldwide: 99%	Worldwide: < 1 in 1,000,000
12.心肺功能失調			
囊狀纖維化 (CF) Cystic Fibrosis (<i>CFTR</i>) NM_000492:1-27 Inheritance: Autosomal Recessive	African American: 1 in 66 Ashkenazi Jewish: 1 in 28 Finland: 1 in 80 French Canadian/Cajun: 1 in 16 Hispanic: 1 in 46 Northwestern Europe: 1 in 28 Southern Europe: 1 in 28 Other Populations: 1 in 87	African American: 99% Ashkenazi Jewish: 99% Finland: 99% French Canadian/Cajun: 99% Hispanic: 99% Northwestern Europe: 99% Southern Europe: 99% Other Populations: 99%	African American: < 1 in 6,500 Ashkenazi Jewish: < 1 in 2,700 Finland: < 1 in 7,900 French Canadian/Cajun: < 1 in 1,500 Hispanic: < 1 in 4,500 Northwestern Europe: < 1 in 2,700 Southern Europe: < 1 in 2,700 Other Populations: < 1 in 8,600
埃利偉氏症候群-EVC變異 EVC-related Ellis-van Creveld Syndrome (<i>EVC</i>) NM_153717:1-21 Inheritance: Autosomal Recessive	Worldwide: 1 in 330	Worldwide: 96%	Worldwide: < 1 in 7,500
埃利偉氏症候群-EVC2 EVC2-related Ellis-van Creveld Syndrome (<i>EVC2</i>) NM_147127:1-22 Inheritance: Autosomal Recessive	Worldwide: < 1 in 500	Worldwide: 99%	Worldwide: < 1 in 50,000
13.泌尿系統問題			
體染色體隱性多囊性腎臟疾病 (ARPKD) Autosomal Recessive Polycystic Kidney Disease, PKHD1-related (<i>PKHD1</i>) NM_138694:2-67 Inheritance: Autosomal Recessive	Finland: 1 in 52 Other Populations: 1 in 82	Finland: 99% Other Populations: 99%	Finland: < 1 in 5,100 Other Populations: < 1 in 8,100
亞伯氏症候群-COL4A3變異 COL4A3-related Alport Syndrome (<i>COL4A3</i>) NM_000091:1-52 Inheritance: Autosomal Recessive	Ashkenazi Jewish: 1 in 180 Finland: 1 in 370 Northwestern Europe: 1 in 210 Southern Europe: 1 in 210 Other Populations: 1 in 350	Ashkenazi Jewish: 97% Finland: 97% Northwestern Europe: 97% Southern Europe: 97% Other Populations: 97%	Ashkenazi Jewish: < 1 in 5,500 Finland: < 1 in 11,000 Northwestern Europe: < 1 in 6,200 Southern Europe: < 1 in 6,200 Other Populations: < 1 in 11,000
亞伯氏症候群-COL4A4變異 COL4A4-related Alport Syndrome (<i>COL4A4</i>) NM_000092:2-48 Inheritance: Autosomal Recessive	Finland: 1 in 370 Northwestern Europe: 1 in 210 Southern Europe: 1 in 210 Other Populations: 1 in 350	Finland: 98% Northwestern Europe: 98% Southern Europe: 98% Other Populations: 98%	Finland: < 1 in 22,000 Northwestern Europe: < 1 in 12,000 Southern Europe: < 1 in 13,000 Other Populations: < 1 in 21,000

亞伯氏症候群-COL4A5變異 COL4A5-related Alport Syndrome (<i>COL4A5</i>) NM_000495:1-51 Inheritance: Inheritance: X-linked Recessive	Worldwide: < 1 in 500	Worldwide: 95%	Worldwide: <1 in 50,000
芬蘭型先天性腎病症候群 Congenital Finnish Nephrosis (NPHS1) NM_004646:1-29 Inheritance: Autosomal Recessive	Finland: 1 in 45 Other Populations: < 1 in 500	Finland: 99% Other Populations: 99%	Finland: < 1 in 4,400 Other Populations: < 1 in 50,000
NPHS2相關腎病症候群 Nephrotic Syndrome, NPHS2-related (NPHS2) NM_014625:1-8 Inheritance: Autosomal Recessive 原發型高草酸鹽尿症第一型(PH1)	French Canadian/Cajun: 1 in 360 Middle East: 1 in 360 Native American: 1 in 360 Southeast Asia: 1 in 360 Southern Europe: 1 in 360 Other Populations: 1 in 360	French Canadian/Cajun: 99% Middle East: 99% Native American: 99% Southeast Asia: 99% Southern Europe: 99% Other Populations: 99%	French Canadian/Cajun: < 1 in 35,000 Middle East: < 1 in 35,000 Native American: < 1 in 35,000 Southeast Asia: < 1 in 35,000 Southern Europe: < 1 in 35,000 Other Populations: < 1 in 35,000
原改型高早酸鹽尿症弗一型(PH1) Primary Hyperoxaluria Type 1 (<i>AGXT</i>) NM_000030:1-11 Inheritance: Autosomal Recessive	Worldwide: 1 in 350	Worldwide: 99%	Worldwide: < 1 in 35,000
原發型高草酸鹽尿症第二型(PH2) Primary Hyperoxaluria Type 2 (<i>GRHPR</i>) NM_012203:1-9 Inheritance: Autosomal Recessive	Worldwide: 1 in 500	Worldwide: 99%	Worldwide: < 1 in 50,000
原發型高草酸鹽尿症第三型(PH3) Primary Hyperoxaluria Type 3 (<i>HOGA1</i>) NM_138413:1-7 Inheritance: Autosomal Recessive	African American: < 1 in 500 Ashkenazi Jewish: 1 in 87 Finland: 1 in 130 French Canadian/Cajun: 1 in 130 Northwestern Europe: 1 in 130 Southern Europe: 1 in 130 Other Populations: 1 in 200	African American: 99% Ashkenazi Jewish: 99% Finland: 99% French Canadian/Cajun: 99% Northwestern Europe: 99% Southern Europe: 99% Other Populations: 99%	African American: < 1 in 50,000 Ashkenazi Jewish: < 1 in 8,600 Finland: < 1 in 13,000 French Canadian/Cajun: < 1 in 13,000 Northwestern Europe: < 1 in 13,000 Southern Europe: < 1 in 13,000 Other Populations: < 1 in 20,000
14.内分泌疾病			
11β-控化酶缺乏-先天性腎上腺皮質增生(congenital adrenal hyperplasia, CAH) 11-beta-hydroxylase-deficient Congenital Adrenal Hyperplasia (<i>CYP11B1</i>) NM_000497:1-9 Inheritance: Autosomal Recessive	Northwestern Europe: 1 in 220 Southern Europe: 1 in 220 Other Populations: 1 in 190	Northwestern Europe: 94% Southern Europe: 94% Other Populations: 94%	Northwestern Europe: < 1 in 3,800 Southern Europe: < 1 in 3,800 Other Populations: < 1 in 3,300

21-控化酶缺乏-先天性腎上腺皮質增生(congenital adrenal hyperplasia, CAH) 21-hydroxylase-deficient Congenital Adrenal Hyperplasia (<i>CYP21A2</i>) 1173N, V282L, R357W, P31L, c.293-13C>G, G111VfsX21, Q319*, L308FfsX6, CYP21A2 deletion, CYP21A2 duplication, Q319*+CYP21A2dup, [I237N;V238E;M240K], CYP21A2 triplication Inheritance: Autosomal Recessive	African American: 1 in 120 Ashkenazi Jewish: 1 in 58 Eastern Asia: 1 in 72 Finland: 1 in 58 French Canadian/Cajun: 1 in 58 Hispanic: 1 in 56 Middle East: 1 in 42 Native American: 1 in 56 Northwestern Europe: 1 in 58 South Asia: 1 in 42 Southeast Asia: 1 in 59 Southern Europe: 1 in 58	African American: 92% Ashkenazi Jewish: 99% Eastern Asia: 88% Finland: 89% French Canadian/Cajun: 96% Hispanic: 95% Middle East: 97% Native American: 90% Northwestern Europe: 96% South Asia: 89% Southeast Asia: 88% Southern Europe: 96%	African American: < 1 in 1,400 Ashkenazi Jewish: < 1 in 5,700 Eastern Asia: < 1 in 590 Finland: < 1 in 530 French Canadian/Cajun: < 1 in 1,400 Hispanic: < 1 in 1,100 Middle East: < 1 in 1,200 Native American: < 1 in 550 Northwestern Europe: < 1 in 1,400 South Asia: 1 in 360 Southeast Asia: 1 in 480 Southern Europe: < 1 in 1,300
Alstrom 氏症候群 Alstrom Syndrome (<i>ALMS1</i>) NM_015120:1-23 Inheritance: Autosomal Recessive	Worldwide: < 1 in 500	Worldwide: 99%	Worldwide: < 1 in 50,000
巴德-畢德氏症候群 (BBS)-BBS1變異 Bardet-Biedl Syndrome, BBS1-related (BBS1) NM_024649:1-17 Inheritance: Autosomal Recessive	Worldwide: 1 in 160	Worldwide: 99%	Worldwide: < 1 in 16,000
巴德-畢德氏症候群 (BBS)-BBS2變異 Bardet-Biedl Syndrome, BBS2-related (BBS2) NM_031885:1-17 Inheritance: Autosomal Recessive	Ashkenazi Jewish: 1 in 140 Middle East: 1 in 180 Other Populations: < 1 in 500	Ashkenazi Jewish: 99% Middle East: 99% Other Populations: 99%	Ashkenazi Jewish: < 1 in 14,000 Middle East: < 1 in 18,000 Other Populations: < 1 in 50,000
巴德-畢德氏症候群 (BBS)-BBS10變異 Bardet-Biedl Syndrome, BBS10-related (<i>BBS10</i>) NM_024685:1-2 Inheritance: Autosomal Recessive	African American: 1 in 440 Eastern Asia: < 1 in 500 French Canadian/Cajun: 1 in 150 Middle East: 1 in 110 Northwestern Europe: 1 in 420 South Asia: < 1 in 500 Southern Europe: < 1 in 500 Other Populations: 1 in 420	African American: 99% Eastern Asia: 99% French Canadian/Cajun: 99% Middle East: 99% Northwestern Europe: 99% South Asia: 99% Southern Europe: 99% Other Populations: 99%	African American: < 1 in 44,000 Eastern Asia: < 1 in 50,000 French Canadian/Cajun: < 1 in 15,000 Middle East: < 1 in 11,000 Northwestern Europe: < 1 in 42,000 South Asia: < 1 in 50,000 Southern Europe: < 1 in 50,000 Other Populations: < 1 in 42,000
巴德-畢德氏症候群 (BBS)-BBS2變異 Bardet-Biedl Syndrome, BBS12-related (<i>BBS12</i>) NM_152618:2 Inheritance: Autosomal Recessive	Middle East: 1 in 210 Other Populations: < 1 in 500	Middle East: 99% Other Populations: 99%	Middle East: < 1 in 20,000 Other Populations: < 1 in 50,000

聯合腦垂體激素缺乏 (CPHD)第二型-PROP1變異 Combined Pituitary Hormone Deficiency, PROP1-related (PROP1) NM_006261:1-3 Inheritance: Autosomal Recessive	Worldwide: 1 in 62	Worldwide: 99%	Worldwide: < 1 in 6,100
家族性持續性幼兒型胰島素過度分泌低血糖症 (PHHI)-ABCC8變異 ABCC8-related Familial Hyperinsulinism (<i>ABCC8</i>) NM_000352:1-39 Inheritance: Autosomal Recessive	Ashkenazi Jewish: 1 in 45 Eastern Asia: 1 in 140 Finland: 1 in 100 Middle East: 1 in 140 Other Populations: 1 in 170	Ashkenazi Jewish: 99% Eastern Asia: 99% Finland: 99% Middle East: 99% Other Populations: 99%	Ashkenazi Jewish: < 1 in 4,400 Eastern Asia: < 1 in 14,000 Finland: < 1 in 10,000 Middle East: < 1 in 14,000 Other Populations: < 1 in 17,000
家族性持續性幼兒型胰島素過度分泌低血糖症 (PHHI)-KCNJ11變異 KCNJ11-related Familial Hyperinsulinism (<i>KCNJ11</i>) NM_000525:1 Inheritance: Autosomal Recessive	Ashkenazi Jewish: 1 in 200 Eastern Asia: 1 in 420 Finland: 1 in 450 Middle East: 1 in 410 Other Populations: < 1 in 500	Ashkenazi Jewish: 99% Eastern Asia: 99% Finland: 99% Middle East: 99% Other Populations: 99%	Ashkenazi Jewish: < 1 in 20,000 Eastern Asia: < 1 in 42,000 Finland: < 1 in 45,000 Middle East: < 1 in 41,000 Other Populations: < 1 in 50,000
先天性類脂質性腎上腺增生症 (CLAH) Lipoid Congenital Adrenal Hyperplasia (<i>STAR</i>) NM_000349:1-7 Inheritance: Autosomal Recessive	Eastern Asia: 1 in 400 Other Populations: < 1 in 500	Eastern Asia: 99% Other Populations: 99%	Eastern Asia: < 1 in 40,000 Other Populations: < 1 in 50,000
先天性腎上腺發育不全-性染色體隱性遺傳型 X-linked Congenital Adrenal Hypoplasia (<i>NROB1</i>) NM_000475:1-2 Inheritance: X-linked Recessive	Worldwide: 1 in 300,000	Worldwide: 99%	Worldwide: < 1 in 1,000,000
15.染色體異常			
布盧姆症候群 Bloom Syndrome (<i>BLM</i>) NM_000057:2-22 Inheritance: Autosomal Recessive	Ashkenazi Jewish: 1 in 110 Other Populations: < 1 in 500	Ashkenazi Jewish: 99% Other Populations: 99%	Ashkenazi Jewish: < 1 in 11,000 Other Populations: < 1 in 50,000
X染色體脆折症 Fragile X Syndrome (<i>FMR1</i>) FMR1 CGG repeat number Inheritance: X-linked	Not Calculated	Worldwide: 99%	Not Calculated
Nijmegen斷裂症候群 Nijmegen Breakage Syndrome (NBN) NM_002485:1-16 Inheritance: Autosomal Recessive 16.其他分類	Worldwide: 1 in 160	Worldwide: 99%	Worldwide: < 1 in 16,000

共濟失調伴維生素E缺乏症 (AVED) Ataxia with Vitamin E Deficiency (<i>TTPA</i>) NM_000370:1-5 Inheritance: Autosomal Recessive	Middle East: 1 in 160 Other Populations: < 1 in 500	Middle East: 99% Other Populations: 99%	Middle East: < 1 in 16,000 Other Populations: < 1 in 50,000
丁型雙功能蛋白缺乏症 D-bifunctional Protein Deficiency (<i>HSD17B4</i>) NM_000414:1-24 Inheritance: Autosomal Recessive	Worldwide: 1 in 160	Worldwide: 98%	Worldwide: < 1 in 9,000
柯凱因氏症候群 (Cockayne syndrome)-ERCC6變異	Eastern Asia: 1 in 370	Eastern Asia: 99%	Eastern Asia: < 1 in 26,000
ERCC6-related Disorders (ERCC6)	Northwestern Europe: 1 in 380	Northwestern Europe: 99%	Northwestern Europe: < 1 in 26,000
NM_000124:2-21	Southern Europe: 1 in 380	Southern Europe: 99%	Southern Europe: < 1 in 26,000
Inheritance: Autosomal Recessive	Other Populations: 1 in 280	Other Populations: 99%	Other Populations: < 1 in 19,000
柯凱因氏症候群 (Cockayne syndrome)-ERCC8變異	Eastern Asia: < 1 in 510	Eastern Asia: 95%	Eastern Asia: < 1 in 9,800
ERCC8-related Disorders (ERCC8)	Northwestern Europe: < 1 in 520	Northwestern Europe: 95%	Northwestern Europe: < 1 in 9,900
NM_000082:1-12	Southern Europe: < 1 in 520	Southern Europe: 95%	Southern Europe: < 1 in 9,900
Inheritance: Autosomal Recessive	Other Populations: 1 in 380	Other Populations: 95%	Other Populations: < 1 in 7,300
家族性地中海熱 (FMF)	Ashkenazi Jewish: 1 in 11	Ashkenazi Jewish: 99%	Ashkenazi Jewish: < 1 in 1,000
Familial Mediterranean Fever (MEFV)	Middle East: 1 in 16	Middle East: 99%	Middle East: < 1 in 1,500
NM_000243:1-10	Southern Europe: 1 in 110	Southern Europe: 99%	Southern Europe: < 1 in 10,000
Inheritance: Autosomal Recessive	Other Populations: < 1 in 500	Other Populations: 99%	Other Populations: < 1 in 50,000
巨腦性腦白質病伴有皮層下囊腫第一型 Megalencephalic Leukoencephalopathy with Subcortical Cysts (<i>MLC1</i>) NM_015166:2-12	Worldwide: < 1 in 500	Worldwide: 99%	Worldwide: < 1 in 50,000
Inheritance: Autosomal Recessive			
唾液酸儲積病			
Salla Disease (<i>SLC17A5</i>)	Finland: 1 in 100	Finland: 99%	Finland: < 1 in 10,000
NM_012434:1-11	Other Populations: < 1 in 500	Other Populations: 98%	Other Populations: < 1 in 30,000
Inheritance: Autosomal Recessive			