

孕知因 精選版-多疾病帶因篩檢

| 項目 | 疾病名稱(中文)* | 疾病名稱(英文) | 基因 | 遺傳模式 | 種族 | 帶因率 | 檢出率 | 檢測後帶因風險 | 檢測後胎兒患病風險 |
|----|----------------------|-----------------------------------------------------------------------|------------|------|--------------------|-------------|-----|----------------|------------------|
| 1 | 醣輔酶A去氫酶9缺乏症 | Acyl-CoA dehydrogenase-9 (ACAD9) Deficiency | ACAD9 | AR | General | <1 in 500 | 98% | <1 in 24,951 | <1 in 10 million |
| 2 | 甲型海洋性貧血 | Alpha thalassemia | HBA1/ HBA2 | AR | General | 1 in 20 | 90% | 1 in 191 | 1 in 15,280 |
| | | | | | East Asian | 1 in 8 | 90% | 1 in 71 | 1 in 2,272 |
| | | | | | South Asian/Indian | 1 in 5 | 90% | 1 in 41 | 1 in 820 |
| 3 | 精胺酸酶缺乏症 | Arginase deficiency | ARG1 | AR | General | 1 in 296 | 98% | 1 in 14,751 | <1 in 10 million |
| 4 | 精胺丁二酸酶缺乏症 | Argininosuccinate lyase deficiency | ASL | AR | General | 1 in 132 | 90% | 1 in 1,311 | 1 in 692,208 |
| 5 | 生物素酵素缺乏症 | Biotinidase deficiency | BTD | AR | General | 1 in 124 | 99% | 1 in 12,301 | 1 in 6,101,296 |
| 6 | 布隆氏症候群 | Bloom syndrome | BLM | AR | General | 1 in 800 | 87% | 1 in 6,147 | <1 in 10 million |
| 7 | 卡那凡氏症 | Canavan disease | ASPA | AR | General | 1 in 300 | 97% | 1 in 9,968 | <1 in 10 million |
| 8 | 肉鹼結合酶缺乏症第一型 | Carnitine palmitoyltransferase IA deficiency | CPT1A | AR | General | 1 in 354 | 90% | 1 in 3,531 | 1 in 4,999,896 |
| 9 | 肉鹼結合酶缺乏症第二型 | Carnitine palmitoyltransferase II deficiency | CPT2 | AR | General | <1 in 500 | 95% | <1 in 9,981 | <1 in 10 million |
| 10 | 瓜胺酸血症 | Citrullinemia | ASS1 | AR | General | 1 in 119 | 96% | 1 in 2,951 | 1 in 1,404,676 |
| | | | | | East Asian | 1 in 132 | 96% | 1 in 3,276 | 1 in 1,729,728 |
| 11 | 先天性腎上腺增生症-17α羥化酶缺乏症 | Congenital adrenal hyperplasia due to 17-alpha-hydroxylase deficiency | CYP17A1 | AR | General | 1 in 500 | 98% | 1 in 24,951 | <1 in 10 million |
| 12 | 先天性腎上腺增生症-21羥化酶缺乏症 | Congenital adrenal hyperplasia due to 21-hydroxylase deficiency | CYP21A2 | AR | General | 1 in 61 | 99% | 1 in 6,001 | 1 in 1,464,244 |
| 13 | 先天性醣基化疾病-1a型 | Congenital disorder of glycosylation type 1a | PMM2 | AR | General | <1 in 500 | 99% | <1 in 49,901 | <1 in 10 million |
| 14 | 囊狀纖維化 | Cystic fibrosis | CFTR | AR | General | 1 in 32 | 99% | 1 in 3101 | 1 in 396,928 |
| | | | | | East Asian | 1 in 94 | 99% | 1 in 9301 | 1 in 3,497,176 |
| 15 | 裘馨氏肌肉失養症 | Duchenne muscular dystrophy† | DMD | XL | General | 1 in 2,350 | 93% | 1 in 33,558 | 1 in 134,260 |
| 16 | 法布瑞氏症 | Fabry disease† | GLA | XL | General | 1 in 25,000 | 99% | 1 in 2,499,901 | 1 in 9,999,804 |
| 17 | Fanconi氏貧血C型 | Fanconi anemia group C | FANCC | AR | General | 1 in 535 | 99% | 1 in 53,401 | <1 in 10 million |
| 18 | 家族性自主神經功能異常 | Familial dysautonomia | ELP1 | AR | General | 1 in 300 | 99% | 1 in 29,901 | <1 in 10 million |
| 19 | X染色體脆折症 | Fragile X syndrome† | FMR1 | XL | General | 1 in 151 | 99% | 1 in 15,001 | 1 in 60,004 |
| 20 | 半乳糖血症 | Galactosemia | GALT | AR | General | 1 in 110 | 95% | 1 in 2,181 | 1 in 959,640 |
| 21 | 高雪氏症 | Gaucher disease | GBA | AR | General | 1 in 77 | 99% | 1 in 7,601 | 1 in 2,341,108 |
| 22 | 葡萄糖-6-磷酸鹽去氫酶缺乏症(蠶豆症) | Glucose-6-phosphate dehydrogenase deficiency† | G6PD | XL | General | 1 in 7 | 98% | 1 in 301 | 1 in 1,204 |
| 23 | 戊二酸尿症-I型 | Glutaric aciduria, type I | GCDH | AR | General | 1 in 87 | 98% | 1 in 4,301 | 1 in 1,496,748 |
| 24 | 肝醣儲積症第1A型 | Glycogen Storage disease, type 1a | G6PC | AR | General | 1 in 177 | 95% | 1 in 3,521 | 1 in 2,492,868 |
| 25 | 血友病A型 | Hemophilia A† | F8 | XL | General | 1 in 3,250 | 48% | 1 in 6,249 | 1 in 25,000 |
| 26 | 血友病B型 | Hemophilia B† | F9 | XL | General | 1 in 15,000 | 99% | 1 in 1,499,901 | 1 in 5,999,804 |
| 27 | 高胱胺酸尿症 | Homocystinuria due to cystathionine beta-synthase deficiency | CBS | AR | General | 1 in 224 | 99% | 1 in 22,301 | <1 in 10 million |
| 28 | 異戊酸血症 | Isovaleric acidemia | IVD | AR | General | 1 in 167 | 90% | 1 in 1,661 | 1 in 1,109,548 |
| | | | | | East Asian | 1 in 407 | 90% | 1 in 4,061 | 1 in 6,611,308 |
| 29 | 楓糖尿症-Ia型 | Maple syrup urine disease type Ia | BCKDHA | AR | General | 1 in 321 | 98% | 1 in 16,001 | <1 in 10 million |
| 30 | 楓糖尿症-Ib型 | Maple syrup urine disease type Ib | BCKDHB | AR | General | 1 in 364 | 98% | 1 in 18,151 | <1 in 10 million |
| 31 | 楓糖尿症-II型 | Maple syrup urine disease, type II | DBT | AR | General | 1 in 481 | 98% | 1 in 24,001 | <1 in 10 million |
| 32 | 中鏈脂肪酸去氫酶缺乏症 | Medium-chain acyl-CoA dehydrogenase (MCAD) deficiency | ACADM | AR | General | 1 in 69 | 98% | 1 in 3,401 | 1 in 938,676 |
| | | | | | East Asian | 1 in 198 | 99% | 1 in 19,701 | <1 in 10 million |
| 33 | 異染性白質退化症 | Metachromatic leukodystrophy | ARSA | AR | General | 1 in 100 | 95% | 1 in 1,981 | 1 in 792,400 |

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|-----------------------------------------------------------------------------------|----------------------|-----------------------------------------------------------|---------|------------|--------------------|-------------|-----|----------------|------------------|
| 34 | 甲基丙二酸血症併高胱胺酸血症-cb1D型 | Methylmalonic aciduria and homocystinuria, cb1D type | MMADHC | AR | General | <1 in 500 | 98% | <1 in 24,951 | <1 in 10 million |
| 35 | 甲基丙二酸血症-MUT型 | Methylmalonic acidemia, MUT-related | MUT | AR | General | 1 in 195 | 96% | 1 in 4,851 | 1 in 3,783,780 |
| | | | | | East Asian | 1 in 53 | 96% | 1 in 1,301 | 1 in 275,812 |
| 36 | 甲基丙二酸血症-cb1A型 | Methylmalonic aciduria, cb1A type | MMAA | AR | General | 1 in 301 | 97% | 1 in 10,001 | <1 in 10 million |
| 37 | 甲基丙二酸血症-cb1B型 | Methylmalonic aciduria, cb1B type | MMAB | AR | General | 1 in 435 | 98% | 1 in 21,701 | <1 in 10 million |
| 38 | 黏多糖症-1型(賀勒氏症) | Mucopolysaccharidosis, type I (Hurler syndrome) | IDUA | AR | General | <1 in 500 | 95% | <1 in 9,981 | <1 in 10 million |
| 39 | 神經元蠟樣脂褐質沉着疾病-CLN3型 | Neuronal ceroid lipofuscinosis, CLN3-related | CLN3 | AR | General | 1 in 230 | 98% | 1 in 11,451 | <1 in 10 million |
| 40 | 尼曼匹克症-A/B型 | Niemann-Pick disease, type A/B | SMPD1 | AR | General | 1 in 250 | 95% | 1 in 4,981 | 1 in 4,981,000 |
| 41 | 非症候群型遺傳性聽障-GJB2型 | Nonsyndromic hearing loss, GJB2-related | GJB2 | AR/Digenic | General | 1 in 42 | 99% | 1 in 4,101 | 1 in 688,968 |
| | | | | | South Asian/Indian | 1 in 148 | 99% | 1 in 14,701 | 1 in 8,702,992 |
| 42 | 非症候群型遺傳性聽障-GJB6型 | Nonsyndromic hearing loss, GJB6-related | GJB6 | AR/Digenic | General | 1 in 423 | 99% | 1 in 42,201 | <1 in 10 million |
| 43 | Pendred 氏症候群 | Pendred syndrome | SLC26A4 | AR | General | 1 in 80 | 98% | 1 in 3,951 | 1 in 1,264,320 |
| | | | | | East Asian | 1 in 74 | 98% | 1 in 3,651 | 1 in 1,080,696 |
| 44 | 苯酮尿症(苯丙胺酸羥基化酶缺乏症) | Phenylalanine hydroxylase deficiency (Phenylketonuria) | PAH | AR | General | 1 in 93 | 99% | 1 in 9,201 | 1 in 3,422,772 |
| | | | | | South East Asian | 1 in 59 | 99% | 1 in 5,801 | 1 in 1,369,036 |
| 45 | 隱性多囊性腎疾病-PKHD1型 | Polycystic kidney disease, PKHD1-related | PKHD1 | AR | General | 1 in 70 | 98% | 1 in 3,451 | 1 in 966,280 |
| 46 | 龐貝氏症(肝糖儲積症第二型) | Pompe disease | GAA | AR | General | 1 in 100 | 98% | 1 in 4,951 | 1 in 1,980,400 |
| | | | | | East Asian | 1 in 112 | 98% | 1 in 5,551 | 1 in 2,486,848 |
| 47 | 丙酸血症-PCCA型 | Propionic acidemia, PCCA-related | PCCA | AR | General | 1 in 224 | 96% | 1 in 5,576 | 1 in 4,996,096 |
| 48 | 丙酸血症-PCCB型 | Propionic acidemia, PCCB-related | PCCB | AR | General | 1 in 224 | 99% | 1 in 22,301 | <1 in 10 million |
| 49 | 肢近端型點狀軟骨發育不良第一型 | Rhizomelic chondrodysplasia punctata, type 1 | PEX7 | AR | General | 1 in 158 | 99% | 1 in 15,701 | 1 in 9,923,032 |
| 50 | 性聯遺傳嚴重複合型免疫缺乏症 | Severe combined immunodeficiency, X-linked† | IL2RG | XL | General | 1 in 25,000 | 99% | 1 in 2,499,901 | 1 in 9,999,804 |
| 51 | 短鏈脂肪酰去氫酶缺乏症 | Short-chain acyl-coA dehydrogenase (SCAD) Deficiency | ACADS | AR | General | 1 in 85 | 99% | 1 in 8,401 | 1 in 2,856,340 |
| | | | | | South Asian/Indian | 1 in 51 | 99% | 1 in 5,001 | 1 in 1,020,204 |
| 52 | 鐮刀型紅血球症; 乙型海洋性貧血 | Sickle cell disease; Beta thalassemia | HBB | AR | General | 1 in 158 | 95% | 1 in 3,141 | 1 in 1,985,112 |
| | | | | | East Asian | 1 in 50 | 95% | 1 in 981 | 1 in 196,200 |
| | | | | | South Asian/Indian | 1 in 25 | 95% | 1 in 481 | 1 in 48,100 |
| 53 | Smith-Lemli-Opitz症候群 | Smith-Lemli-Opitz syndrome | DHCR7 | AR | General | 1 in 30 | 96% | 1 in 726 | 1 in 87,120 |
| 54 | 脊髓性肌肉萎縮症 | Spinal muscular atrophy | SMN1 | AR | General | 1 in 54 | 91% | 1 in 590 | 1 in 127,440 |
| | | | | | East Asian | 1 in 59 | 93% | 1 in 830 | 1 in 195,880 |
| 55 | 原發性肉鹼缺乏症 | Systemic primary carnitine deficiency | SLC22A5 | AR | General | 1 in 129 | 76% | 1 in 534 | 1 in 275,544 |
| | | | | | East Asian | 1 in 77 | 76% | 1 in 318 | 1 in 97,944 |
| | | | | | South Asian/India | 1 in 51 | 76% | 1 in 209 | 1 in 42,636 |
| 56 | 戴薩克斯症 | Tay-Sachs disease | HEXA | AR | General | 1 in 300 | 99% | 1 in 29,901 | <1 in 10 million |
| 57 | 高酪胺酸血症-1型 | Tyrosinemia, type 1 | FAH | AR | General | 1 in 99 | 95% | 1 in 1,961 | 1 in 776,556 |
| | | | | | South Asian/Indian | 1 in 172 | 95% | 1 in 3,421 | 1 in 2,353,648 |
| 58 | 高酪胺酸血症-2型 | Tyrosinemia, type II | TAT | AR | General | 1 in 250 | 98% | 1 in 12,451 | <1 in 10 million |
| 59 | 極長鏈醯輔酶A去氫酶缺乏症 | Very long-chain acyl-CoA dehydrogenase (VLCAD) deficiency | ACADVL | AR | General | 1 in 118 | 93% | 1 in 1,672 | 1 in 789,184 |
| | | | | | South Asian/Indian | 1 in 73 | 93% | 1 in 1,030 | 1 in 300,760 |
| 60 | 威爾森氏症 | Wilson disease | ATP7B | AR | General | 1 in 87 | 98% | 1 in 4,301 | 1 in 1,496,748 |
| 61 | 柴爾維格氏症候群-PEX1型 | Zellweger syndrome, PEX1-related | PEX1 | AR | General | 1 in 147 | 95% | 1 in 2,921 | 1 in 1,717,548 |
| †男性帶因篩檢不會檢測性聯遺傳疾病 | | | | | | | | | |
| *中文疾病名稱以衛生福利部國民健康署遺傳疾病諮詢網頁、財團法人罕病基金會及罕見疾病一點通命名為主 | | | | | | | | | |
| AR: 體染色體隱性遺傳; XL: X染色體隱性遺傳; Digenic: 雙基因遺傳, 同時由兩個不同的基因互相影響而導致同一疾病發病。(不列入附件剩餘風險計算) | | | | | | | | | |
| 此份資料參考原廠2019.07 Beacon Expanded Carrier Supplemental Table | | | | | | | | | |