



NHS Highly Specialised Service for Rare Mitochondrial Disorders
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REFERRAL FORM

Patient & Contact Details

Name: DoB: NHS No:

Address:

..... Post Code:

Patient ethnicity: Sex: M/F

Referring Hospital: Hosp. No:

Referring Consultant: Specialty:

Other Consultants: Specialty:

Address:

Tel: Secure E-mail (preferably nhs.net):

PO Number (required for all referrals outside of England and Scotland)

Please note all reports will be issued to all referring clinicians by secure email where possible

Name of person who collected sample (if known):

Date of collection: Date of referral for mitochondrial studies:

Sample details

Sample Type(s) and Date:

Blood Buccal Urine
Muscle (specify) Fibroblasts
Other (specify)

If the sample is muscle, please state if it has been obtained from:

Open biopsy Needle biopsy Post-mortem Endomyocardial biopsy

Tests Requested

Biochemistry/Immunohistochemistry Histochemistry
Genetics (Specify on Page3) Other

If **urgent** testing is required, please contact the laboratory by phone or email to confirm

Details of previous or ongoing genetic tests requested elsewhere (required):

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Clinical Details

Proband Parental consanguinity
Affected relative Maternal inheritance
Unaffected relative Age at onset:

Family history:
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Classical Clinical Phenotype? Y/N

If **yes**, then which of the following?

Pearson's syndrome LIMM NARP/MILS
KSS MNGIE LHON
CPEO MIDD Deaf/Dystonia
CPEO (+) SNHL Leigh syndrome
MELAS HCM Alpers' syndrome
MERRF Pure Myopathy

If **no**, then which of the following clinical features are present?

Stroke/S-L Episodes Dev Delay Deafness
Encephalopathy Hypotonia Anaemia
Seizures Dystonia Renal dis
Migraine Central apnoea Optic atrophy
Diabetes Dysphagia Retinopathy
Endocrinopathy Constipation Nystagmus
Growth failure Liver disease Fatigue
Cardiomyopathy Myopathy Dementia
Failure to thrive Myalgia Learning Diff

Further clinical details:

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Local report on muscle biopsy:

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Clinical Investigations

Bl. Lactate:mmol/l CSF Lactate:mmol/l Serum CK:iu
ECG abnormal: Y/N EEG abnormal: Y/N Echo abnormal: Y/N

Brain MRI/CT findings:

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Molecular Genetic Investigations:

- R42 LHON
- R64 MELAS or MIDD - m.3243A>G
- R65 Aminoglycoside exposure posing risk to hearing – m.1555A>G
- R299 mtDNA rearrangement (long range PCR)
- R301 mtDNA depletion (real-time PCR)
- R315 *POLG*-related disorder
- R350 MERRF common pathogenic variants
- R351 NARP or maternally inherited Leigh syndrome
- R394 MNGIE - *TYMP* Gene Sequencing
- R395 Thiamine metabolism dysfunction syndrome 2 – *SLC19A3* Gene Sequencing
- R396 Mitochondrial complex V deficiency, *TMEM70* type
- R397 Maternally inherited cardiomyopathy - m.4300A>G

NGS:

- R63 Possible mitochondrial disorder – nuclear genes
- R300 mtDNA full genome sequencing (NGS)
- R316 Pyruvate dehydrogenase (PDH) deficiency
- R317 Mitochondrial Liver Disease, including transient infantile liver failure
- R352 Mitochondrial DNA maintenance disorder
- R353 Mitochondrial disorder with complex I deficiency
- R354 Mitochondrial disorder with complex II deficiency
- R355 Mitochondrial disorder with complex III deficiency
- R356 Mitochondrial disorder with complex IV deficiency
- R357 Mitochondrial disorder with complex V deficiency

Familial Testing:

- R240 Diagnostic testing for known pathogenic variant (specify)
- R242 Predictive testing for known familial variant (specify)
- R244 Carrier testing for known familial variant (specify)
- R246 Carrier testing at population risk for partners of known carriers of autosomal recessive disorders (specify gene)
- R296 RNA analysis of variants
- R375 Family follow up testing to aid variant interpretation

Other

