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The Newcastle upon Tyne Hospitals
NHS Foundation Trust

NHS Highly Specialised Service for Rare Mitochondrial Disorders
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LAB TARIFFS & CHARGES

Histochemical investigation of mitochondrial abnormalities in skeletal muscle

H and E, Cytochrome *c* oxidase (COX), Succinate Dehydrogenase (SDH), combined COX/SDH activity	£175

Immunohistochemical investigations

Quadruple immunofluorescent assessment of mitochondrial respiratory chain function in muscle	£550

Biochemical investigations

Respiratory chain enzymes and citrate synthase in fresh and frozen muscle	£550
Respiratory chain enzyme activities and citrate synthase in cultured cells	£600

Molecular genetic investigations (mtDNA and nuclear DNA disorders)

R42.1 Common LHON variants (Sanger sequencing)	£170
R42.2 Whole mitochondrial genome (mtDNA) (NGS)	£550
R42.4 *DNAJC30* (Sanger sequencing)	£160
R64.1 *MT-TL1* m.3243A>G (Pyrosequencing)	£70
R65.1 *MT-RNR1* m.1555A>G (Sanger sequencing)	£70
R299.1 Mitochondrial rearrangements (Long PCR)	£120
R299.2 Mitochondrial rearrangements heteroplasmy assessment (Taqman® real-time PCR)	£90
R299.3 Mitochondrial rearrangements breakpoint mapping (NGS)	£550
R300.1 Whole mitochondrial genome (mtDNA) (NGS)	£550
R301.1 Mitochondrial depletion (Taqman® real-time PCR)	£90
R350.1 Common MERRF variants (Sanger sequencing)	£70
R351 *MT-ATP6* and *MT-ATP8* (Sanger sequencing)	£140
R397.1 *MT-TI* m.4300A>G (Pyrosequencing)	£70
R315.1 Common *POLG* variants (Pyrosequencing)	£180
R315.2 *POLG* (Sanger sequencing)	£550
R316.1 PDH Deficiency (NGS panel)	£1380
R317.1 Mitochondrial liver disease (NGS panel)	£1380

R352.1 Mitochondrial DNA maintenance panel (NGS panel)	£1380
R353.1 Mitochondrial disorder with complex I deficiency (NGS panel)	£1380
R354.1 Mitochondrial disorder with complex II deficiency (NGS panel)	£1380
R355.1 Mitochondrial disorder with complex III deficiency (NGS panel)	£1380
R356.1 Mitochondrial disorder with complex IV deficiency (NGS panel)	£1380
R357.1 Mitochondrial disorder with complex V deficiency (NGS panel)	£1380
R63.1 Possible mitochondrial disorder – nuclear (NGS panel)	£1380
R394.1 *TYMP* (Sanger sequencing)	£410
R395.1 *SLC19A3* (Sanger sequencing)	£410
R396.1 *TMEM70* (Sanger Sequencing)	£350
Pyrosequencing of rare or novel pathogenic mtDNA variant	£100
Sanger Sequencing of known nuclear variants (per variant)	£100
Prenatal Genetic Testing (mtDNA and nuclear gene variants)	£300
Preimplantation Genetic Testing (mtDNA variants only)	£POA
Real Time PCR screen for mtDNA rearrangements in single muscle fibres	£250